New! 800V, 1000V, 1250V and 1500V models - 10kW/15kW

Genesy

**Programmable DC Power Supplies** 10kW/15kW in 3U Built in RS-232 & RS-485 Interface **Advanced Parallel Operation** 

**Optional Interfaces:** LXI Compliant LAN **GPIB (IEEE 488.2 & SCPI Compliant)** Isolated Analog Program/Monitor



Genesys™ Family

GEN H 750W Half-Rack

GEN 1U 750W/1500W/2400W Full-Rack

GEN 2U 3.3kW/5kW GEN 3U 10kW/15kW

TDK·Lambda

www.us.tdk-lambda.com/hp

The Genesys<sup>TM</sup> family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

### Features include:

- High Power Density 10kW/15kW in 3U package
- **High Output Current up to 1000ADC**
- Wide Range of popular worldwide 3Φ AC inputs, (208VAC, 400VAC, 480VAC)
- Power Factor 0.88 (Passive PFC on all AC Inputs)
- Output Voltage up to 1500V; Output Current up to 1000A
- Built-in RS-232/RS-485 Interface Standard
- **Last Setting Memory; Front Panel Lockout**
- "Advanced Parallel" configuration reports total system current (up to four identical units)
- Global Commands for Serial RS-232/RS-485 Interface
- Continuous Encoders for Voltage and Current Adjustment
- Independent Remote ON/OFF and Remote ENABLE/DISABLE
- Reliable Modular and SMT Design
- 19" Rack Mounted for ATE and OEM Applications, zero-stack
- Optional Interfaces

Compliant LAN (Class C)

GPIB (IEEE 488.2 & SCPI Compliant) w/ Multi-Drop capability Isolated Analog Programming and Monitoring Interface (0-5V/0-10V & 4-20mA)

- LabView™ and LabWindows™ Software Drivers
- Worldwide Safety Agency Approvals; UL Recognized and CE Mark for LVD and EMC Regulation (208VAC, 400VAC and select 480VAC models)
- Five Year Warranty





## **Applications**

**Genesys<sup>TM</sup>** power supplies are designed for demanding applications.

Test & Measurement systems using GPIB control save significant costs by incorporating the optional IEEE Multi-Drop Interface (IEMD) in the Master unit. Then up to 30 Slave units may be used with the standard RS-485 Multi-Dropinterface.

**Automated System** designers will appreciate new, standard, remote programming features such as Global commands. Also, new high-speed status monitoring is available for the RS-485 bus as well as the optional LAN (LXI compliant) Interface.

**Industrial & Military** high power systems can be configured with up to four identical units in parallel (up to 60kW). No space is required above or below each power supply (zero stack). The Master unit can be configured by the user to report the total Output current of the combined system. Applications include Heaters, Magnets and Laser Diodes.

Aerospace & Satellite Testing systems use the complete Genesys™ Family: 1U-750W Half-Rack, 1U-750W/ 1.5kW/2.4kW Full-Rack, <u>2U</u>-3.3kW/5kW Full-Rack and <u>3U</u>-10kW/15kW Full-Rack. All are identical in Front Panel, Rear Panel Analog and Digital Interface Commands. A wide variety of Outputs (voltage and current) allows testing of many different user configurations.

Component Device Testing is simplified because of the many user-friendly control options in the Analog and Digital interfaces. Lamps, capacitors, motors and actuators are typical devices tested.

Medical Imaging and Treatment systems require reliable power. Modular construction, SMT and thoroughly proven designs assure continuous performance at full rated power.

Semiconductor Processing & Burn-in equipment designers appreciate the wide variety of worldwide AC Inputs and Outputs from which to select, depending on application. Selectable Safe-Start and Auto Re-Start protects loads and process integrity. Typical applications include Magnets, Filaments and Heaters.

## **Front Panel Description**



- 1. AC ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Continuous encoder controls Output Voltage, Address, OVP and UVL settings.
- 4. Voltage Display shows Output Voltage and directly displays OVP, UVL and Address settings.
- 5. Continuous encoder controls Output Current, sets Baud rate and Advanced Parallel mode.
- 6. Current Display shows Output Current and displays Baud rate. Displays total current in Parallel Master/Slave Mode.
- 7. Function/Status LEDs:
  - Alarm
- Fine Control
- Preview Settings

- Foldback Mode
- Remote Mode
- Output On
- 8. Pushbuttons allow flexible user configuration
  - Coarse and Fine adjustment of Output Voltage/Output Current and Advanced Parallel Master or Slave select.
  - Preview Settings and set Voltage/Current with Output OFF, Front Panel Lock.
  - Parallel Master/Slave (Basic and Advanced).
  - Set OVP and UVL Limits.
  - Set Current Foldback Protection.
  - Go to Local Mode and select Address and Baud rate.
  - Output ON/OFF and Safe-Start/Auto Re-Start mode.

## **Rear Panel Description**



- 1. Remote/Local Output Voltage Sense Connections.
- 2. DIP Switches select 0-5V or 0-10V Programming and other functions.
- 3. DB25 (Female) connector allows Analog Program and Monitor (non-isolated) and other functions.
- 4. RS-485 OUT to other Genesys™ Power Supplies.
- 5. RS-232/RS-485 IN Remote Serial Programming.
- 6. Output Connectors: Rugged 2 hole busbars (shown) for models < 30V Output, single hole busbars for 30V to 300V Output, and threaded-stud terminals for models > 300V Output.
- 7. Exit air assures reliable operation when zero stacked.
- 8. Input Terminals L1, L2, L3, and Ground (threaded studs).
- 9. Optional Interface Position for LAN (LXI Class C), GPIB (IEEE 488.2 SCPI) or Isolated Analog Interface.

### LAN Interface complies with LXI Class C Specification

Genesvs <sup>™</sup>	211	101/W	Chaoifi	actions
Genesvs'''	3U	IUKVV	Specifi	cations

1.0 MODEL	GEN			12.5-800	20-500	25-400	30-333	40-250	50-200	60-167	80-125	100-100	125-80	┸
1.Rated Output Voltage	VDC	7.5	10	12.5	20	25	30	40	50	60	80	100	125	Т
2.Rated Output Current	ADC	1000	1000	800	500	400	333	250	200	167	125	100	80	Τ
3.Rated Output Power	kW	0.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	$\top$
Efficiency (min) at low AC line, 100% Rated Load	%	77						83						Ť
					С	ontact Fa	ctory for c	ther mod	lels					I
.1 CONSTANT VOLTAGE MODE (CV)														_
. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	7.5	10	12.5	20	25	30	4	5	6	8	10	12.5	
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor <	.,			40.5										$^{+}$
500V; 0.1% - 600V < Vor ≤ 1500V)	mV	7.5	10	12.5	20	25	30	8	10	12	16	20	25	1
8. Ripple, rms, 5Hz~1MHz, CV (*1)	mV	20	20	20	20	20	20	20	20	20	25	25	25	+
4. Output Noise, p-p, (20MHz), CV (*1) 5.Remote Sense Compensation / Wire	mV	60	60	60	60	60	60	60	75	75	100	100	125	+
5. Temperature Stability	V	1 + 0.05%	1 ( of )/o(rat	1	1 2 hours of	tor 20 mi	1.5	2	3	3	4 Temperatu	5	5	+
7. Temperature Stability	ppm / °C			of Vo Rate		ter 30 mil	ilule Waili	r up (cons	starit Line	, LUAU &	remperan	iie)		+
B. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms	1 200 (2	2 0.02 /0 0	77 70 11010	u) / U			100						t
9. Up-Prog. Response Time, 0~Vomax, no-load	ms							50						Ť
10. Transient Response Time (CV mode) (*2)	ms						Les	s than 3						Ť
1.2 CONSTANT CURRENT MODE (CC)														_
I. Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - 17A < Ior <														Т
33A; 0.15% - lor < 17A)	mA	1000	1000	800	500	400	333	125	100	83.5	62.5	50	40	
2. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior < $\frac{123}{120}$ (2.2)	mA	1000	1000	800	500	400	333	188	150	125	94	75	60	
333A; 0.2% - Ior < 17A) (*3) 3. Ripple rms, 5Hz~1MHz, CC	mA	5300	4000	2560	1000	640	444	250	160	67	50	40	32	+
4. Temperature Stability											Temperatu		UL	+
5. Temperature Coefficient	ppm/°C			of Io Rated		2. 00 11111		- P (00110		, u	poratu	,		+
1.3 PROTECTIVE FUNCTIONS	1 11 1				,									_
1. OCP	%	0 ~ 100												Т
2. OCP type			nt current											+
3. Foldback Protection (FOLD)				· Manual i	reset by fr	ont pane	I OUT but	ton or Dio	ital comr	nunicatio	n, user-sel	ectable		t
4. Foldback Response Time	S			= 0.25 / N							11, 0001 001	COLUDIO		t
5. OVP type											ng or Digita	al commuino	ration	+
6. OVP Programming Accuracy	%		Vo(rated)			710 01170	100,0.0,	00. 500	1011, 110111	0107111010	rg or Digita		Janon	$^{+}$
7. OVP Trip Point	V	5% to 10	05% of Vo	(rated) - f				of Vo(rate	ed) - 600	V < Vor <	1500V; Sh	nall always b	be greater	+
OVD Davis Time	v	than 10	5% of Vo(	setting); D	efault = 1	05% of V	o(rated).	<u> </u>						ļ
8. OVP Response Time	ms				begin to	drop) for	Vor ≤ 600	V; Less th	nan 2.0 (f	or Output	to begin to	o drop) for		
- 14 OVER - T			Vor ≤ 150		- ·									+
9. Max. OVP Reset Time 10. Over-Temperature Protection (OTP)	S 	_ `		ff switch to			fo opounti		/I atalaad	Cofo mo				+
10. Over-remperature Frotection (OTF)		Shini do	wn II Intel											
											de / Unlat	ched: Auto-r	mode)	+
11. Phase-Loss Protection				y shutdow							ide / Unlati	ched: Auto-r	mode)	1
11. Phase-Loss Protection 1.4 REMOTE ANALOG CONTROLS & SIGNALS		Yes, po	wer suppl	y shutdow	n (Latche	ed: Safe-r	node / Un	latched: A	uto-mod		ide / Unlat	ched: Auto-r	mode)	† -
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming	0~100%,	Yes, pou	wer suppl	y shutdow	n (Latche	ed: Safe-r	node / Un Linearity:	±1% of V	o(rated)		ode / Uniat	ched: Auto-r	mode)	† 
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming	0~100%, 0~100%,	Yes, pov 0 ~ 5V or 0 ~ 5V or	0 ~ 10V, 0 ~ 10V,	y shutdow user-selectuser-select	rn (Latche ctable., Acctable, Acc	ed: Safe-r curacy & curacy &	node / Un Linearity:	±1% of V	/o(rated)	e)	ode / Uniati	ched: Auto-r	mode)	† 
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming	0~100%, 0~100%, 0~100%,	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kg	0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s	y shutdow user-selectuser-select	table., Actable, Acc	ed: Safe-r curacy & curacy & le, Accura	Linearity: Linearity: Linearity:	±1% of V ±1% of I earity: ±1	vo(rated) o(rated) % of Vo(r	e) ated)	ode / Uniati	ched: Auto-r	mode)	† 
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming	0~100%, 0~100%, 0~100%, 0~100%,	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ko 0 ~ 5/10ko	0 ~ 10V, 0 ~ 10V, ohm full-s	user-selectus-selectuser-selectus-select	table., Actable, Accaselectable.	ed: Safe-r curacy & curacy & le, Accura	Linearity: Linearity: acy & Lineacy & Lineacy	±1% of V ± 1% of I earity: ± 1°	/o(rated) o(rated) % of Vo(r	ated)			,	1
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)	0~100%, 0~100%, 0~100%, 0~100%, By Voltag	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ko 0 ~ 5/10ko e: 0.6V =	0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s	user-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectus	ctable., Acctable, Acctabl	curacy & curacy & curacy & le, Accura fault) or E	Linearity: Linearity: acy & Lineacy & Lineacy & Lineacy & Contact	±1% of V ± 1% of I earity: ± 1°	/o(rated) o(rated) % of Vo(r	ated)		ched: Auto-r	,	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Iout Voltage Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor	0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ko 0 ~ 5/10ko e: 0.6V = 0 ~ 10V, A	0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s Disable, 2 Accuracy:	user-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectus-selectuser-selectus-select	ctable., Acctable, Acctable, Acctable acceptable.	curacy & curacy & curacy & le, Accurate, Accur	Linearity: Linearity: Linearity: acy & Line acy & Line Dry Contactable	±1% of V ± 1% of I earity: ± 1°	/o(rated) o(rated) % of Vo(r	ated)			,	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Resistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ko 0 ~ 5/10ko e: 0.6V = 0 ~ 10V, A 0 ~ 10V, A	wer suppl 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s Disable, 2 Accuracy:	user-selectus-selectuser-selectuser-selectus	ctable., Acctable, Acctable, Acctable, Accreselectable. Accompable (deio(rated), 1/0(rated), 1/0(rated	curacy & curacy & curacy & le, Accurate, Accur	Linearity: Linearity: Linearity: acy & Lineacy & Lineacy & Lineacy & Contact Ctable	±1% of V ± 1% of I earity: ± 1°	/o(rated) o(rated) % of Vo(r	ated)			,	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Resistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL	Yes, pour 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kg 0 ~ 5/10kg e: 0.6V = 0 ~ 10V, // 0 ~ 10V, // High = Ok	wer suppl 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s Disable, 2 Accuracy: Accuracy: K, 0V = Fa	y shutdow user-selectuser-selecticale, user- cale, user- cale, user- cale, user- 2-15V = E ± 1% of I ± 1% of Nail (5000h)	ctable., Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable (detable), able (detable), acctable, a	curacy & curacy & curacy & le, Accurate, Accurate, Accurate, Industrial cursus of the	Linearity: Linearity: Linearity: acy & Line acy & Line Dry Contac ctable ectable	±1% of V ± 1% of I ± 1% of I earity: ± 1 earity: ± 1 earity: ± 1	/o(rated) o(rated) % of Vo(rated) % of Vo(rated) % of Jo(rated)	ated) ated) ort = DIS	(user-sele		,	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes. TTL	Yes, pour 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, A 0 ~ 10V, A High = Ok High (4 ~ 5)	wer suppl 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s Disable, 2 Accuracy: Accuracy: X, 0V = Fa 5V), Max	y shutdow user-selectus-selectuser-selectuser-selectuser-selectuser-selectuser-selectus-	ctable., Acctable, Acctable, Accreselectable able (deformated), reference in the control of the	curacy & curacy & curacy & curacy & le, Accura le, Accura fault) or Luser-sele user-sele mpedanc mA; CC:	Linearity: Linearity: Linearity: acy & Line acy & Line acy & Line ctable actable actable actable actable actable	±1% of V ± 1% of I ± 1% of I earity: ± 1' earity: ± 1' ct: Open =	vo(rated) o(rated) o(rated) % of Vo(rated) % of Io(rated) % of Io(rated) % of Io(rated) height before the control of the contr	ated) ated) ort = DIS	(user-sele		,	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL ICV: TTL I	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, A 0 ~ 10V, A High = OH High (4 ~ 5 loct; Open :	wer suppl  0 ~ 10V, 0 ~ 10V, ohm full-sohm full-sohm full-sAccuracy: Accuracy: Accuracy: C, 0V = Fe  5V), Max = Off, Sho	y shutdow user-selectuser-selecticale, user- cale, user- cale, user- 2-15V = E ± 1% of I ± 1% of V source cu ort = On; N	ctable., Acctable., Acctable., Acctable., Accreselectableselectable (dero(rated), ro/o(rated), m series i rrrent = 10 Max. volta.	ed: Safe-r curacy & curacy & le, Accura le, Accura fault) or E user-sele user-sele mpedanc mA; CC: ge across	Linearity: Linearity: Linearity: Linearity: Lacy & Line Lacy & Lin	±1% of V ±1% of I ±1% of I earity: ±1' earity: ±1' ct: Open =	fo(rated) fo(rated) fo(rated) % of Vo(r % of lo(rated) = EN, Sho h), Max sin	ated) ated) ort = DIS	(user-sele		,	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I CV:TTL IF	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, A 0 ~ 10V, A High = OH High (4 ~ 5 loct; Open :	wer suppl  0 ~ 10V, 1 0 ~ 10V, 1 0 ~ 10V, 1 0 hom full-sohm full-s	y shutdow user-select cale, user- cale, user- cale, user- 2-15V = E ± 1% of V ail (500ohr source cu ort = On; N eration by	table., Actable., Actable., Acctable., Acctable. Acc-selectable. Acctable. A	ed: Safe-r curacy & curacy & le, Accura le, Accura fault) or E user-sele user-sele mpedanc mA; CC: ge across 0 ~ 0.6V =	Linearity: Linearity: Linearity: Linearity: Lacy & Line Lacy & Lin	±1% of \\ ±1% of \\ ± 1% of  \ ± 1% of  \ interpretation	vuto-mod	ated) ated) ort = DIS	(user-selection (user-selection))	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I CV:TTL IF	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, A 0 ~ 10V, A High = OH High (4 ~ 5 loct; Open :	wer suppl  0 ~ 10V, 1 0 ~ 10V, 1 0 ~ 10V, 1 0 hom full-sohm full-s	y shutdow user-select cale, user- cale, user- cale, user- 2-15V = E ± 1% of V ail (500ohr source cu ort = On; N eration by	table., Actable., Actable., Acctable., Acctable. Acc-selectable. Acctable. A	ed: Safe-r curacy & curacy & le, Accura le, Accura fault) or E user-sele user-sele mpedanc mA; CC: ge across 0 ~ 0.6V =	Linearity: Linearity: Linearity: Linearity: Lacy & Line Lacy & Lin	±1% of \\ ±1% of \\ ± 1% of  \ ± 1% of  \ interpretation	vuto-mod	ated) ated) ort = DIS	(user-selection (user-selection))		)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Resistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL   CV: TTL   Dry conta Selects R Signals o	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd 0 ~ 10V, J 0 ~ 10V, J 0 ~ 10V, J High = OM High (4 ~ 5 lot; Open siemote or perating n	wer suppl  0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Accuracy: Accuracy: X, 0V = Fe 5V), Max = Off, Sho Local ope mode; Ope	y shutdow user-selectus-selectuser-selectuser-selectuser-selectuser-selectuser-selectus-	table., Acctable, Acctable, Acctable, Acctable, Accessedatable, Accessedatable	ed: Safe-r curacy & curacy & le, Accura le, Accura fault) or E user-sele user-sele mpedanc mA; CC: ge across 0 ~ 0.6V = COPEN (N	Linearity:	±1% of \\ ±1% of \\ ±1% of \  ±1% of	uuto-mod fo(rated) fo(rated) fo(rated) % of Vo(r % of Io(rate) = EN, She formula She s	ated) ated) ort = DIS  hk current 6V = On (Ma	(user-selection (user-selection))	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or Yes.TTL I Dry conta Selects R Signals o	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / High = Ok High (4 ~ 5 tet; Open = teterote or perating n	wer suppl  0 ~ 10V, 0 ~ 10V, 0 ~ 10V, ohm full-s ohm full-s ohm full-s Cacuracy: Accuracy: Accur	y shutdow user-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-selectuser-select	table., Acctable, Acctable, Acctable, Acctable, Acctable, Accessed table and table (deto(rated), to/o(rated), maseries in rirent = 10 Max. volta.  voltage: Corr: Local = encoders	curacy & curacy & le, Accuracy & le,	Linearity: Linearity: Linearity: Acy & Linea Cory & Line Cory Contac Cotable C	±1% of \\ ±1% of \\ ±1% of I \\ ±1% of I \\ ±arity: ±1' tarity: ±1' the Open =  (0 ~ 0.4V Disable cc ~ 15V =  ye = 30V)  Ujustment	volunto-modification of contracts and contracts and contracts are remoted by the contracts and contracts are remoted by the contracts and contracts are remoted by the contract are remoted by t	ated) ated) ort = DIS  hk current 6V = On (Ma	(user-selection (user-selection))	ctable logic)	)	 
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Resistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0 ~ 5V or Yes.TTL I CV: TTL I Dry conta Selects R Signals o	9 Yes, pour 9 O ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd or 0 ~ 5/10kd or 0 ~ 5/10kd or 10V, / 0 ~ 10	wer suppl  0 ~ 10V, 0 ~ 10V, 0 ~ 10V, 0 ohm full-sohm fu	y shutdow  user-select cale, user	table., Actable., Actable.	curacy & curacy & le, Accuracy & le,	Linearity:	±1% of \\ ±1% of \\ ±1% of I \\ ±1% of I \\ ±arity: ±1' tarity: ±1' the Open =  (0 ~ 0.4V Disable cc ~ 15V =  ye = 30V)  Ujustment	volunto-modification of contracts and contracts and contracts are remoted by the contracts and contracts are remoted by the contracts and contracts are remoted by the contract are remoted by t	ated) ated) ort = DIS  hk current 6V = On (Ma	(user-selection (user-selection))	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Resistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I Dry conta Selects R Signals o	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / High = Ok High = Ok Lit; Open siemote or perating n	wer suppl  0 ~ 10V, 0	y shutdow  user-selectuser-selectuser-selecticale, user cale, user cale, user 2-15V = E ± 1% of I ± 1% of N id (500ohr source cu ort = On; N eration by en collecte separate & voltage Ac d Adjust er	ctable, Acctable, Acctable, Acctable, Acctable, Acctable, Accessed to Access	curacy & curacy & curacy & curacy & le, Accura le, Accura fault) or Luser-sele mpedanc mA; CC: ge across 0 ~ 0.6V = Copen (No. 1) course a dder, Fronof addres	Linearity: Linearity: Linearity: acy & Linearity acy & Lineari	±1% of V ±1% of II ±1% of II earity: ±1' carity: ±1'	volunto-modification (rated) (o(rated) (orated) (of voluntial field) (of location), Max simulates = Remote, Remote (selectable)	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-sele- t = 10mA ax sink cur	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL i Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd 0 ~ 10V, / 0 ~ 10V, / High = Oh- High = Oh- Light (4 ~ £ Lott; Open a Light (4 ~ £ Lott; Open a Lott; Open	wer suppl  0 ~ 10V, to ~ 1	y shutdow  user-selectus-selectuser-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selectus-selec	table., Actable, Acctable, Acctable, Acctable, Acc-selectable selectable sele	curacy & curacy & curacy & curacy & curacy & de, Accurate, Accurat	Linearity:	±1% of \\ ±1% of \\ ±1% of \\ ±1% of I \\ ±2% of I \\ ±2% of I \\ ±2% of I \\ ±3% of I \\	volunto-modification (rated) (o(rated) (orated) (of voluntial field) (of location), Max simulates = Remote, Remote (selectable)	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-sele- t = 10mA ax sink cur	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL   CV: TTL   Dry conta Selects R Signals of Vout/ lout OVP/UVL Address s AC ON/O RS-232/F	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / High (4 ~ 5 tot; Open a temote or perating n manual a manual a FF, Outpu 8S-485, IE	wer suppl  0 - 10V, 10 - 10V, 10V, 10V, 10V, 10V, 10V, 10V, 10V,	y shutdow  user-select user-select cale, user dale, use	ctable., Actable, Acctable, Acctable, Acctable, Acc-selectable selectable sel	curacy & curacy & curacy & curacy & curacy & le, Accurate, Accurate, Accurate and the curacy & le, Accurate and the curacy & cura	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) earity: ± 1 \(\frac{1}{2}\) cit: Open = \(\frac{1}{2}\) (0 ~ 0.4V \(\frac{1}{2}\) Disable cc \(\frac{1}{2}\) 15V = \(\frac{1}{2}\) e = 30V) \(\frac{1}{2}\) ijustment \(\frac{1}{2}\) control ((\frac{1}{2}\) P-switch	volunto-modification (volunto-modificated)  volunto-modificated)  volunto-modificated)  volunto-modificated)  volunto-modificated)  volunto-modificated  vol	ated) ated) ort = DIS  ak current 6V  = On (Ma	(user-selection to the selection to the	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Resistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I CV:TTL I Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate	Yes, pov  0 ~ 5V or  0 ~ 5V or  0 ~ 5/10ke  0 ~ 5/10ke  0 ~ 10V, /  0 ~ 10V, /  High = Ok  High = O	wer suppl  0 ~ 10V, 10 ~ 1	y shutdow  user-select	critable., Actable., Actable., Actable., Actable., Actable., Accessed actable. Accessed acces	curacy & curacy & curacy & curacy & de, Accuracy &	Linearity: Linearity: Linearity: acy & Linea acy & Linea cy & Linea cy & Contac ctable	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 that the control of \(\frac{1}{2}\) control (0 ~ 0.4V) Disable and \(\frac{1}{2}\) is a 15V = \(\frac{1}{2}\) is a 30V). Iljustment back/Unloc Control (CP-switch 0 and 19,	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  1.5 FRONT PANEL  1. Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or Yes.TTL I Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced	Yes, povo 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5V loke 0 ~ 10V, /	wer suppl  0 ~ 10V, 0	y shutdow  user-select user-select cale, user cale, user cale, user 2-15V = E ± 1% of I ± 1% of N iil (500oh source cu ort = On; N eration by en collecte separate e Voltage Ac Adjust er Restart M D) and LA //RS-485 c ave: Hx =	ctable., Actable., Actable	curacy & curacy & curacy & curacy & de, Accuracy &	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 that the control of \(\frac{1}{2}\) control (0 ~ 0.4V) Disable and \(\frac{1}{2}\) is a 15V = \(\frac{1}{2}\) is a 30V). Iljustment back/Unloc Control (CP-switch 0 and 19,	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  1.5 FRONT PANEL  1. Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or Yes.TTL I Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4	Yes, pov 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / High = Ok High = Ok Lict; Open site temote or perating n manual a manual a selection b FF, Output SS - 88E, IE e selection d of the control of the control of the control d of the control of the contro	wer suppl  0 ~ 10V, 0	y shutdow  user-select user-select cale, user be 175 of 1  ± 1% of 1  ± 4 Norrect correct	table, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable (de of (rated), (for (rated), maseries in the formation of the	curacy & curacy & curacy & curacy & curacy & curacy & le, Accurate, Accurate	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 that the control of \(\frac{1}{2}\) control (0 ~ 0.4V) Disable and \(\frac{1}{2}\) is a 15V = \(\frac{1}{2}\) is a 30V). Iljustment back/Unloc Control (CP-switch 0 and 19,	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  1.5 FRONT PANEL  1. Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I- Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Current: 4	Yes, povo 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd or 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / High = 0 / 0 / 10V, / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	wer suppl  0 ~ 10V, 10 ~ 1	y shutdow user-selectu	in (Latcher in Latcher	curacy & curacy & curacy & curacy & curacy & curacy & de, Accurate, Accurate	Linearity:	±1% of \\ in the sarity: ±1' \\ sarity: ±	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL 16. Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 7 ves. TTL   CV: TTL   Dry conta Selects R Signals of Vout/ lout OVP/UVL Address s AC ON/O RS-232/R Baud rate Advancec Voltage: 4 Voltmeter	Yes, pow 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / 10 ~ 10V, / High = Ok- High = Ok- High (4 ~ 5) tot; Open = manual a manual a selection b FF, Outpu 8S-485, IE selection d Parallel I digits, Ac digits, Ac digits, Ac digits, Ac	wer suppl  0 ~ 10V, i	y shutdow  user-select user-select cale, user deliver ± 1% of I ± 1% of I ± 1% of I ± 1% of I 0 of No paration by en collecte separate e voltage Ac to Adjust er Restart M D) and LA //RS-485 c ave: Hx = 0.5% of I 0.5% of I power su	ctable., Actable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable, Acctable and Acctable acceptance of the Acceptance of the Acctable acceptance of the Ac	curacy & curacy & curacy & curacy & curacy & le, Accurate, Accurate, Accurate le, Accurate, Accurate le, Accurate luser-selement le, Accurate luser-selement le, Accurate luser-selement le, Accurate luser-selement le, Coarse a dider, Front of address to/Safe), on by read, 2400, 410, 2400, 411, where left le count less than the left les	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 sarity: ± 1 sarity: ± 1 sarity: ± 1? sa	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
II. Phase-Loss Protection  I.4 REMOTE ANALOG CONTROLS & SIGNALS  I. Vout Voltage Programming  I. lout Notage Programming  I. lout Resistor Programming  I. l	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 7es.TTL   CV: TTL	Yes, povo 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10kd or 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / 0 ~ 10V, / High = 0 / 0 / 10V, / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	wer suppl  0 - 10V, 1	y shutdow  user-select user-select cale, user beta 1% of I  ± 1% of I  beta 1% of I  cale cale cale cale cale cale cale cal	critable., Actable., Actable., Actable., Actable., Accessed actable. Accessed access	curacy & curacy & curacy & curacy & curacy & de, Accuracy & de, Ac	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 sarity: ± 1 sarity: ± 1 sarity: ± 1? sa	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
II. Phase-Loss Protection  I.4 REMOTE ANALOG CONTROLS & SIGNALS  I. Vout Voltage Programming  I. Jout Voltage Programming  I. Jout Nesistor Programming  I. Jout Resistor Programming  I. Jout Resistor Programming  I. Jout Resistor Programming  I. Jout Resistor Programming  I. Jout Public Programming  I. Output Current Monitor  I. Output Voltage Monitor  I. Output Voltage Monitor  I. Over Supply OK (PS_OK) Signal  II. Enable/Disable  II. Remote/Local Selection  II. Remote/Local Signal  II. FRONT PANEL  II. Control Functions  II. Signal  III. Signal	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 7es.TTL   CV: TTL	Yes, pour O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5/10km or 0 ~ 5/10km or 10V, i o ~ 10V, i o o ~ 10V, i o o ~ 10V, i o o o o o o o o o o o o o o o o o o	wer suppl  0 - 10V, 1	y shutdow  user-select user-select cale, user beta 1% of I  ± 1% of I  beta 1% of I  cale cale cale cale cale cale cale cal	critable., Actable., Actable., Actable., Actable., Accessed actable. Accessed access	curacy & curacy & curacy & curacy & curacy & de, Accuracy & de, Ac	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 sarity: ± 1 sarity: ± 1 sarity: ± 1? sa	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. Iout Voltage Programming  3. Vout Nesistor Programming  4. Iout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal  9. CV/CC Signal  10. Enable/Disable  11. Remote/Local Selection  12. Remote/Local Signal  15. FRONT PANEL  1. Control Functions	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or Yes.TTL I CV:TTL IF Dry conta Selects R Signals of Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED:	Yes, pour Ves, pour O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5/10kd e: 0.6V = 0 ~ 10V, i O ~ 10V, i High = 0 kd dight eight eigheid eight e	wer suppl  0 - 10V, 1	y shutdow  user-select user-select cale, user deale, u	critable., Actable., Actable., Actable., Actable., Accessed actable. Accessed access	curacy & curacy & curacy & curacy & curacy & de, Accuracy & de, Ac	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) is arity: ± 1 sarity: ± 1 sarity: ± 1 sarity: ± 1? sa	wito-modification of the control of	ated) ated) ort = DIS  hk current 6V  = On (Ma	(user-selection) (user-	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Voltmeter Green LE Red LED:	Yes, pour O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5/10kd o ~ 5/10kd e: 0.6V = 0 ~ 10V, / O ~ 10V, / High = OH dight (4 ~ ½ lott; Open elemote or perating n or manual a manual a manual a manual a delection b FF, Output (5 ~ 485, IE) digits, Ac digits, Ac digits, Ac digits, Ac dight (5 ~ 6 ~ 6 ~ 6 ~ 6 ~ 6 ~ 6 ~ 6 ~ 6 ~ 6 ~	wer suppl  0 ~ 10V, 0	y shutdow user-selectuser-selectuser-selecticale, user- cale, user- cale, user- cale, user- cale, user- cale, user- cale, user- 2-15V = E ± 1% of I ± 1% of N source cut ort = On; N eration by en collecter separate e voltage Ac Adjust er Restart M O) And LA Adjust er Restart M O) And LA	in (Latcher in (Latcher in (Latcher) in (Lat	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) earity: ± 1'strive (0 ~ 0.4V) Disable of \(\frac{1}{2}\) ~ 15V = \(\frac{1}{2}\) e = 30V). Ijustment bock/Unlock  Control (CP-switch 0 and 19, Slave unit d (Remote CC, FINE)	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Lout Programming Accuracy 2. Lout Programming Accuracy	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I- Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Voltmeter Green LE Red LED:  ± 0.5% of ± 0.5% of	Yes, pour Ves, pour O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5/10kr or O ~ 5/10	wer suppl  0 ~ 10V, 0	y shutdow user-selectuser-selectuser-selecticale, user- cale, user- cale, user- cale, user- cale, user- cale, user- cale, user- 2-15V = E ± 1% of I ± 1% of N source cut ort = On; N eration by en collecter separate e voltage Ac Adjust er Restart M O) And LA Adjust er Restart M O) And LA	in (Latcher in (Latcher in (Latcher) in (Lat	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) earity: ± 1'strive (0 ~ 0.4V) Disable of \(\frac{1}{2}\) ~ 15V = \(\frac{1}{2}\) e = 30V). Ijustment bock/Unlock  Control (CP-switch 0 and 19, Slave unit d (Remote CC, FINE)	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. lout Programming Accuracy 3. Vout Programming Resolution	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Voltmeter Green LE Red LED:	Yes, pow  0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 0 ~ 5/10ke 0 ~ 5/10ke 0 ~ 10V, / 0 ~ 10V, / High = Or High = Or High (4 ~ £ tent) High (4 ~ £ tent) High = Or High =	wer suppl  0 ~ 10V, 0	y shutdow user-selectuser-selectuser-selecticale, user- cale, user- cale, user- cale, user- cale, user- cale, user- cale, user- 2-15V = E ± 1% of I ± 1% of N source cut ort = On; N eration by en collecter separate e voltage Ac Adjust er Restart M O) And LA Adjust er Restart M O) And LA	in (Latcher in (Latcher in (Latcher) in (Lat	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) earity: ± 1'strive (0 ~ 0.4V) Disable of \(\frac{1}{2}\) ~ 15V = \(\frac{1}{2}\) e = 30V). Ijustment bock/Unlock  Control (CP-switch 0 and 19, Slave unit d (Remote CC, FINE)	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming  2. lout Voltage Programming  3. Vout Resistor Programming  4. lout Resistor Programming  5. Shut-Off (SO) Control (rear panel)  6. Output Current Monitor  7. Output Voltage Monitor  8. Power Supply OK (PS_OK) Signal	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 7 ves. TTL   Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/R Baud rate Advancec Voltage: 4 Voltmeter Green LE Red LED:  ± 0.5% of ± 0.5% of 0.02% of	Yes, pour O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5/10kd or 0 ~ 5/10kd e: 0.6V = 0 ~ 10V, / O ~ 10V, / High (4 ~ 5 tot; Open a manual a selection be FF, Output (8 ~ 485, IE selection be I Parallel I digits, Act displays to D's: PREVALEM (Control of I Parallel I digits, Act displays to I Parallel I digits, Act displays to I Parallel I I parallel I I parallel I I parallel I I digits, Act displays to I parallel I I p	wer suppl  0 - 10V, 10 - 1	y shutdow  user-select user-select cale, user dense dens	catable., Actable., Actable., Actable., Actable., Actable., Actable., Acceptable.	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) ± 1% of \(\frac{1}{2}\) earity: ± 1'strive (0 ~ 0.4V) Disable of \(\frac{1}{2}\) ~ 15V = \(\frac{1}{2}\) e = 30V). Ijustment bock/Unlock  Control (CP-switch 0 and 19, Slave unit d (Remote CC, FINE)	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. lout Programming Resolution 4. lout Programming Resolution 5. Vout Readback Accuracy 6. Vout Readback Accuracy 6. Vout Readback Accuracy	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 7es.TTL   CV: TTL   Dry conta Selects R Signals of Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Voltmeter Green LE Red LED:  ± 0.5% of 0.02% of 0.04% of	Yes, pow  0 ~ 5V or  0 ~ 5V or  0 ~ 5/10kc  0 ~ 5/10kc  0 ~ 5/10kc  0 ~ 10V, /  0 ~ 10V, /  High = Or  High = Or  High (4 ~ 5)  terror or  perating n  manual a  manual a  selection b  FF, Outpu  8S-485, IE  9 selection  1 Parallel I  4 digits, Ac  displays  D's: PREV  ALRM (C	wer suppl  0 - 10V, 1	y shutdow  user-select user-select cale, user dealer 1.5 of Vale to the the the the dealer to the the the the dealer to the the the dealer to the the the dealer to the the dealer to the dealer	critable., Actable., Actable., Actable., Actable., Accessed actable. Accessed access	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \( \) ±2% of \( \) ±2% of \( \) ±3% of \( \) ±3% of \( \) ±4% o	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection 1.4 REMOTE ANALOG CONTROLS & SIGNALS 1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Lout Programming Resolution 4. lout Programming Resolution 5. Vout Readback Accuracy 6. lout Readback Accuracy	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 7es.TTL   CV:TTL   CV:TTL   Selects R Signals or Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED:  ± 0.5% of 0.02% of 0.04% of ± (0.1% of	Yes, pow  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  0 ~ 5/10ke  0 ~ 5/10ke  e: 0.6V =  0 ~ 10V, /  High = Or  High = Or  Itemote or  perating n  manual a  manual a  manual a  selection b  FF, Outpu  Se selection  digits, Ac  displays v  D's: PREV  ALRM (C  rated Out  rated Out  for (arted)	wer suppl  0 - 10V, 1	y shutdow  user-select user-select cale, user dealer 1.5 of Vale to the the the the dealer to the the the the dealer to the the the dealer to the the the dealer to the the dealer to the dealer	critable., Actable., Actable., Actable., Actable., Accessed actable. Accessed access	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \( \) ±2% of \( \) ±2% of \( \) ±3% of \( \) ±3% of \( \) ±4% o	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. lout Voltage Programming 3. Vout Resistor Programming 4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. lout Programming Accuracy 3. Vout Programming Resolution 4. lout Programming Resolution 4. lout Programming Resolution	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Ves.TTL I- Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Current: 4 Voltmeter Green LE Red LED:  ± 0.5% of 0.02% of 0.02% of ± 0.1% of ± (0.1% of ± (	Yes, pour O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5V or O ~ 5/10kr or O ~ 5/10	wer suppl  0 - 10V, 1	y shutdow  user-select user-select cale, user dealer 1.5 of Vale to the the the the dealer to the the the the dealer to the the the dealer to the the the dealer to the the dealer to the dealer	critable., Actable., Actable., Actable., Actable., Accessed actable. Accessed access	ed: Safe-recuracy & curacy & curacy & curacy & curacy & le, Accurate, Accura	Linearity:	±1% of \( \) ±2% of \( \) ±2% of \( \) ±3% of \( \) ±3% of \( \) ±4% o	wito-modificities with the control of the control o	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	
11. Phase-Loss Protection  1.4 REMOTE ANALOG CONTROLS & SIGNALS  1. Vout Voltage Programming 2. Jout Voltage Programming 3. Vout Resistor Programming 4. Jout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1. 6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Jout Programming Resolution 4. Jout Programming Resolution 5. Vout Readback Accuracy 5. Jout Readback Accuracy 6. Jout Readback Resolution 7. Vout Readback Resolution	0~100%, 0~100%, 0~100%, 0~100%, 0~100%, By Voltag 0~5V or 0~5V or Yes.TTL I- Dry conta Selects R Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Current: 4 Voltmeter Green LE Red LED:  ± 0.5% of ± 0.5% of 0.02% of 0.04% of ± (0.1% of 0.02% of 0.02% of	Yes, pow  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  0 ~ 5/10ke  0 ~ 5/10ke  0 ~ 10V, /  10 ~	wer suppl  0 ~ 10V, i	y shutdow  user-select user-select cale, user definition source cu ort = On; N eration by en collecte separate e voltage Ac e Adjust er Restart M D) and LA /RS-485 c ave: Hx = c 0.5% of 1 power st LD, REM FOLD, AC ge ent for unit	in (Latcher in (La	curacy & curacy & curacy & curacy & curacy & curacy & le, Accurate, Accurate, Accurate, Accurate and the curacy & le, Accurate and the curacy & cur	Linearity:	±1% of \\ ±1% of \\ ±1% of \\ ±1% of \\ in 1% of \\ in 1% of \\ in 1% of \\ in 2 \\ in 1% of \\ in 2 \\ in 2 \\ in 2 \\ in 3 \\ in 1% \\ in 3	wito-modification of the control of	ated) ated) ort = DIS  ak current 6V  = On (Male) ), Go-to-L urrent ad , S = Slav	(user-sele- t = 10mA ax sink cur .ocal just encode e unit(s)	ctable logic)	)	

<sup>\*1.</sup> Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.

\*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of lo(rated).

\*3 .From 20% - 100% for models with lor < 17A.

All specifications subject to change without notice.

Genesys<sup>™</sup> 3U 10kW Specifications

I.0 MODEL	GEN	150-66	200-50	250-40	300-33	400-25	500-20	600-17	800-12.5	1000-10	1250-8	1500-6.7	Γ
I.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800*	1000*	1250*	1500*	T
Rated Output Current	ADC	66	50	40	33	25	20	17	12.5	10	8.0	6.7	$\vdash$
Rated Output Power	kW	9.9	10.0	10.0	9.9	10.0	10.0	10.2	10.0	10.0	10.0	10.0	Ť
Efficiency (min) at low AC line, 100% Rated Load	%				83				I		3.5		$^{+}$
.1 CONSTANT VOLTAGE MODE (CV)	1					act Facto	ry for othe	r models					$^{+}$
· /		ı					,						芒
. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 00V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	L
. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 00V; 0.1% - 600V < Vor ≤ 1500V)	mV	30	40	50	60	80	100	120	800	1000	1250	1500	
. Ripple, r.m.s, 5Hz~1MHz, CV (*1)	mV	25	35	35	60	60	60	60	80	100	120	140	$\Box$
. Output Noise, p-p (20MHz), CV (*1)	mV	150	175	200	200	300	350	350	700	800	1000	1400	丄
.Remote Sense Compensation / Wire	V	5	5	5	5	5	5	5	5	5	5	5	丄
. Temperature Stability						fter 30 mi	nute warr	n up (con	stant Line,	Load & Te	mperature)	)	丰
Temperature Coefficient	ppm / °C	± 200 (	0.02% of	Vo Rated									╄
. Up-Prog. Response Time, 0~Vomax, full-load	mS				100					17			╀
. Up-Prog. Response Time, 0~Vomax, no load	mS				50				-	17			╀
0. Transient Response Time (CV mode) (*2)	mS			l	ess than	3				Less t	nan 1		丄
2 CONSTANT CURRENT MODE (CC)													_
Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - 17A < Ior < 33A; 0.15% - Ior < 17A)	mA	33	25	20	17	13	10	9	19	15	12	10	
Max. Load Reg (0.1% - $lor \ge 333A$ ; 0.075% - 17A ≤ $lor < 33A$ ; 0.2% - $lor < 17A$ ) (*3)	mA	50	38	30	25	19	15	13	25	20	15	14	Γ
. Ripple rms, 5Hz~1MHz, CC	mA	26	20	16	13	10	8	7	15	10	6	4	$\uparrow$
. Temperature Stability										Load & Ter			$\uparrow$
. Temperature Coefficient	ppm / °C			lo Rated)					-,		,		$\uparrow$
3 PROTECTIVE FUNCTIONS		(			-								_
OCP	%	0 ~ 100	<u> </u>										т
OCP type	96		nt curren	t									+
. Foldback Protection (FOLD)					I reset by	front nan-	al OLIT his	itton or Di	nital comp	nunication,	user-selen	table	+
. Foldback Response Time	S								a "FBD" co		4301-30100	LUDIO	+
OVP type										te Analog	or Digital o	omm	╁
OVP Programming Accuracy	%		f Vo(rate		ai iesei b	/ AC OII/C	ni recycle	, 001 bu	iion, nemi	ne Analog (	or Digital C	OIIIIII.	╁
· · ·	i –				for Vor -	600\/- 109	/ to 105%	of Vo(rat	od) - 600\	/ - Vor - 15	OOV: Shall	always be	
OVP Trip Point	V	than 10	5% of Vo	(setting);	Default =	105% of \	/o(rated).	`	,	r Output to			yre T
OVP response time	mS	600V <	Vor ≤ 15	00V.		чтор) тог	VOI ≤ 600	iv, Less ii	Iaii 2.0 (10	1 Output to	begin to u	тор) тог	Ļ
. Max. OVP reset time  0. Over-Temperature Protection (OTP)	S	_ `		Off switch t						0 ( ())			╀
										Safe / Unla	atched: Aut	(0)	╀
1. Phase-Loss Protection		res, po	wei supp	ny shuluo	WII (Lateri	eu. Sale-i	noue / Or	ilatorieu. /	Auto-mode	)			_
4 REMOTE ANALOG CONTROLS & SIGNALS													_
Vout Voltage Programming				user-sele									╀
. lout Voltage Programming				user-sele						n			╀
. Vout resistor programming	0~100%,			cale, user		e. Accura			of Vo(rate	ed)			┺
1 10 11 0	0 4000/		nm tull-s							13			
				cale, user	-selectabl	e. Accura	,			,	, ,		╄
. Shut-Off (SO) Control (rear panel)	By Voltag	e: 0.6V =	Disable,	2-15V = E	-selectabl -nable (de	e. Accura efault) or [	Ory Conta			,	(user-selec	table logic)	t
. Shut-Off (SO) Control (rear panel) . Output Current Monitor	By Voltag 0 ~ 5V or	e: 0.6V = 0 ~ 10V,	Disable, Accuracy	2-15V = E /: ± 1% of	-selectabl Enable (de lo(rated),	e. Accura efault) or [ user-sele	Ory Conta ctable			,	(user-selec	table logic)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor	By Voltag 0 ~ 5V or 0 ~ 5V or	e: 0.6V = 0 ~ 10V, 0 ~ 10V,	Disable, Accuracy Accuracy	2-15V = E /: ± 1% of /: ± 1% of	selectable nable (de lo(rated), Vo(rated)	e. Accurac efault) or I user-sele , user-sele	Ory Conta ctable ectable			,	(user-selec	etable logic)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Ok	Disable, Accuracy Accuracy K, 0V = F	2-15V = E /: ± 1% of /: ± 1% of ail (500oh	-selectabl Enable (de lo(rated), Vo(rated) m series	e. Accurac efault) or I user-sele , user-sele impedanc	Ory Conta ctable ectable e)	ct : Open	= ENA, SI	nort = DIS (		etable logic)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oh High (4 ~	Disable, Accuracy Accuracy C, OV = F 5V), Max	2-15V = E /: ± 1% of /: ± 1% of ail (500oh x source c	selectable (de lo(rated), Vo(rated) m series urrent = 1	e. Accurace efault) or I user-sele user-sele user-sele impedance omA; CC:	Ory Conta ctable ectable e) TTL Low	ct : Open	= ENA, SI	nort = DIS (		etable logic)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oh High (4 ~ act; Open	Disable, Accuracy Accuracy K, OV = F 5V), Max = Off, Sh	2-15V = E /: ± 1% of /: ± 1% of ail (500oh x source control on;	selectable (de lo(rated), Vo(rated) m series urrent = 1 Max. volta	e. Accurac efault) or I user-sele , user-sele impedanc 0mA; CC: age acros	Ory Contactable ectable e) TTL Lower Enable/I	ct : Open (0 ~ 0.4V Disable co	), Max sin	nort = DIS (		etable logic)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL CV: TTL I Dry conta	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oh High (4 ~ act; Open demote or	Disable, Accuracy Accuracy C, 0V = F 5V), Max = Off, Sh	2-15V = E $2 \pm 1\%$ of $2 \pm 1\%$ of fail (500oh source contresion by	eselectable (de lo (rated), Vo (rated) m series urrent = 1 Max. voltage:	e. Accurac efault) or I user-sele , user-sele impedanc 0mA; CC: age acros 0 ~ 0.6V	Dry Conta ctable ectable e) TTL Low s Enable/I = Local /	ct : Open (0 ~ 0.4V Disable co 2 ~ 15V =	= ENA, SI	nort = DIS ( k current =	10mA		
Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Power Supply OK (PS_OK) Signal CV/CC Signal D. Enable/Disable I. Remote/Local Selection Power Supply OK (PS_OK) Signal D. Enable/Disable Power Supply OK (PS_OK) Signal D. Enable/Disable Power Supply OK (PS_OK) Signal	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL CV: TTL I Dry conta	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oh High (4 ~ act; Open demote or	Disable, Accuracy Accuracy C, 0V = F 5V), Max = Off, Sh	2-15V = E $2 \pm 1\%$ of $2 \pm 1\%$ of fail (500oh source contresion by	eselectable (de lo (rated), Vo (rated) m series urrent = 1 Max. voltage:	e. Accurac efault) or I user-sele , user-sele impedanc 0mA; CC: age acros 0 ~ 0.6V	Dry Conta ctable ectable e) TTL Low s Enable/I = Local /	ct : Open (0 ~ 0.4V Disable co 2 ~ 15V =	= ENA, SI	nort = DIS (	10mA		
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I  Dry conta  Selects F  Signals o	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oh High (4 ~ act; Open demote or perating i	Disable, Accuracy Accuracy C, 0V = F 5V), Max Off, Sh Local op mode; Op	2-15V = E y: ± 1% of y: ± 1% of ail (500oh x source cont = On; peration by pen collect	selectable (de lo (rated), Vo (rated) m series urrent = 1 Max. voltage: tor: Local	e. Accuracte fault) or I user-sele user-sele impedance omA; CC: age acros 0 ~ 0.6V = Open (I	Dry Contactable ectable ectable e) TTL Low s Enable/I = Local / Max voltage	(0 ~ 0.4V Disable of 2 ~ 15V = ge = 30V)	), Max sin ontacts = 6 Remote ; Remote :	nort = DIS ( k current = SV  = On (Max	10mA		
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I  Dry conta  Selects F  Signals o	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oh High (4 ~ act; Open demote or perating i	Disable, Accuracy Accuracy C, OV = F 5V), Max = Off, Sh Local op mode; Op	2-15V = E y: ± 1% of y: ± 1% of ail (500oh c source con nort = On; peration by pen collect	selectable Inable (de Ino(rated), Vo(rated) m series urrent = 1 Max. volta v voltage: tor: Local	e. Accurac efault) or I user-sele user-sele impedanc 0mA; CC: age acros 0 ~ 0.6V = = Open (I	Dry Contactable ectable ectable e) TTL Low s Enable/I = Local / Max voltage	ct : Open  (0 ~ 0.4V  Disable co 2 ~ 15V =  ge = 30V)	= ENA, SI  ), Max sint ontacts = 6  Remote , Remote :	nort = DIS ( k current = SV  = On (Max	10mA		
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I:  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OH High (4 ~ act; Open demote or perating i	Disable, Accuracy Accuracy C, 0V = F 5V), May = Off, St Local op mode; Op adjust by adjust by	2-15V = E (: ± 1% of (: ± 1% of ail (500oh c source con port = On; peration by pen collect separate v Voltage A	selectable Enable (de Io(rated), Vo(rated) m series current = 1 Max. volta v voltage: ior: Local encoders djust enc	e. Accurac efault) or I user-sele , user-sele impedanc 0mA; CC: age acros 0 ~ 0.6V: = Open (I	Dry Contactable ectable ectable e) TTL Low s Enable/le Local / Max voltage and fine act t Panel L	ct : Open  (0 ~ 0.4V  Disable co 2 ~ 15V =  ge = 30V)	= ENA, SI  ), Max sint ontacts = 6  Remote , Remote :	nort = DIS ( k current = SV  = On (Max	10mA		
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I:  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OH-ligh (4 ~ act; Open lemote or perating in manual at manual at selection	Disable, Accuracy Accuracy C, OV = F 5V), May = Off, St Local op mode; Op adjust by by Voltage	2-15V = E  2: ± 1% of  2: ± 1% of  3: ± 1% of  3: ± 1% of  3: id (500oh  4: source conort = On;  5: peration by  5: peration by  6: separate  6: Voltage A  6: peration experiments  7: voltage A  7: peration experiments  8: voltage A  8: peration experiments  9: voltage A  9: peration experiments  9: voltage A	selectable Enable (de lo(rated), Vo(rated) m series surrent = 1 Max. volta v voltage: tor: Local encoders djust encoders. #	e. Accurar efault) or I user-sele user-sele user-sele impedanc 0mA; CC: age acros 0 ~ 0.6V: = Open (I (coarse a oder, Fror of addres	ory Contactable exctable exctable ey TTL Low s Enable/le = Local / Max voltage and fine acut Panel Le see = 31	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment	), Max siniontacts = 6: Remote : selectablesk	k current = SV = On (Max	10mA sink currer		
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OH- ligh (4 ~ act; Open temote or perating to manual a manual a selection iFF, Outpu	Disable, Accuracy Accuracy C, OV = F 5V), May = Off, St Local op mode; Op adjust by adjust by by Voltag ut On/Off	2-15V = E  7: ± 1% of  7: ± 1% of  6: ± 1% of  ail (500oh  6 source co  nort = On;  beration by  ben collect  separate  Voltage A  ge Adjust e  , Restart N	selectable nable (de lo(rated), Vo(rated) m series urrent = 1 Max. volta v voltage: tor: Local encoders djust enc incoder. # Modes (Ai	e. Accurar efault) or I user-sele user-sele user-sele user-sele impedanc 0mA; CC: age acros 0 ~ 0.6V : = Open (I (coarse a oder, Fror of addres uto/Safe),	ory Contactable ectable e) TTL Low s Enable/le = Local / Max voltage and fine acut Panel Le sees = 31 Foldback	ct: Open  (0 ~ 0.4V  Disable co 2 ~ 15V = ge = 30V)  djustment ock/Unloc  Control (i	), Max siniontacts = 6: Remote : selectablesk	nort = DIS ( k current = SV  = On (Max	10mA sink currer		
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or Ves.TTL CV:TTL I Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OH- ligh (4 ~ act; Open temote or perating i manual a manual a selection iFF, Outpu	Disable, Accuracy Accuracy C, OV = F 5V), Max = Off, St Local or mode; Or adjust by adjust by by Voltag ut On/Off EEE (IEM	2-15V = E /: ± 1% of /: ± 1% of id (500oh id (500oh id source chort = On; peration by pen collect separate Voltage A ge Adjust e , Restart M ID) and LA	selectable Enable (de Io(rated), Vo(rated) m series urrent = 1 Max. volta v voltage: tor: Local encoders djust enc ncoder. # Modes (Al AN selecti	e. Accuración de la composition del composition de la composition de la composition del composition de la composition de	ory Contactable ectable e) TTL Low s Enable/le = Local / Max voltag and fine ac at Panel Le ses = 31 Foldback r-panel DI	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  djustment ock/Unloc Control (i P-switch	= ENA, SI	k current = SV  On (Max  Go-to-Loc	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL	By Voltag  0 ~ 5V or  0 ~ 5V or  7 ~ 5V or  Yes. TTL  Dry contain  Selects F  Signals o  Vout/ lout  OVP/UVL  Address A  AC ON/O  RS-232/F  Baud rate	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OH digh (4 ~ act; Open demote or perating in a manual and selection of FF, Output 8S-485, IE e selection	Disable, Accuracy Accuracy C, OV = F 5V), Max = Off, St Local op mode; Op adjust by by Voltag ut On/Off EEE (IEM n (RS-23	2-15V = E /: ± 1% of /: ± 1% of /: ± 1% of ail (500oh source cont = On; peration by pen collect separate v Voltage A pe Adjust e , Restart M ID) and LA 2/RS-485	selectable Enable (de Io(rated), Vo(rated) m series urrent = 1 Max. volta v voltage: tor: Local encoders djust enc ncoder. # Modes (Al AN selectionly): 120 onable (Al AN selectionly): 120	e. Accurace e. Accurace fault) or I user-sele	Dry Contactable ectable e) TTL Low s Enable/le = Local / Max voltag und fine ac tt Panel L sses = 31 Foldback r-panel DI 4800, 960	ct : Open  (0 ~ 0.4V  Disable co 2 ~ 15V = ge = 30V)  djustment ock/Unloc  Control (i P-switch 0 and 19	= ENA, SI	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  7es. TTL  CV: TTL I  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OH digh (4 ~ act; Open demote or perating in a manual a selection of FF, Output Selection of Parallel	Disable, Accuracy Accuracy Accuracy C, OV = F 5V), May = Off, Sh Local or mode; Op adjust by adjust by by Voltag ut On/Off EEE (IEM n (RS-23 Master/S	2-15V = E /: ± 1% of /: ± 1% of all (500oh c source co or t = On; peration by pen collect separate Voltage A ge Adjust e , Agestart N 1D) and LJ 2/RS-485 Slave: Hx =	selectable Enable (de lo(rated), Vo(rated) wo (rated) vo(rated) wo series urrent = 1 Max. voltage: tor: Local encoders djust enc ncoder. # Modes (Ai AN selecti only): 120:	e. Accurac e. Accurac efault) or I user-sele user-sele user-sele officer efault) or I user-sele user-sele efault) efault	Dry Contactable ectable e) TTL Low s Enable/le = Local / Max voltag and fine ag the Panel L sses = 31 Foldback r-panel Dl 4800, 960 e x = # of	ct : Open  (0 ~ 0.4V  Disable co 2 ~ 15V = ge = 30V)  djustment ock/Unloc  Control (i P-switch 0 and 19	= ENA, SI	k current = SV  On (Max  Go-to-Loc	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . FRONT PANEL Control Functions	By Voltag 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 10 ~ 5V or 10 ~ 5V or 10 vesting 10 v	e: 0.6V = 0 ~ 10V, 0 ~ 10V, 10 ~ 10V, 1igh (4 ~ 10V) 1igh (4 ~ 10V	Disable, Accuracy Accuracy Accuracy C, 0V = F 5V), May = Off, Sh Local or mode; Op adjust by adjust by voltag ut On/Off EEE (IEM n (RS-23 Master/S ccuracy:	2-15V = E /: ± 1% of /: ± 1% of ail (500oh c source contre On; peration by pen collect separate Voltage A pen Adjust e, Restart M MD) and LA 2/RS-485 Slave: Hx = ± 0.5% o	selectable Enable (de Ino(rated), Vo(rated) wo (rated) vo(rated) wo (rated) vo (rated) wo series urrent = 1 Max. volta voltage: cor: Local encoders djust enc ncoder. # Modes (Ai AN selecti only): 120 Master L Vo(rated	e. Accuracifault) or I user-sele, user-sele, user-sele impedancom, CC: age acros 0 ~ 0.6V: = Open (I (coarse a oder, Fror of address tto/Safe), on by rea 000, 2400, unit, where ) ±1 coun	Dry Contactable ectable e) TTL Low s Enable/le = Local / Max voltag and fine ag the Panel L sses = 31 Foldback r-panel Dl 4800, 960 e x = # of	ct : Open  (0 ~ 0.4V  Disable co 2 ~ 15V = ge = 30V)  djustment ock/Unloc  Control (i P-switch 0 and 19	= ENA, SI	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Cutput Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . FRONT PANEL Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  Ves.TTL  CV:TTL E  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: Current: 4  Current: 4	e: 0.6V = 0 - 10V, 0 - 10V, 0 - 10V, light (4 - 10V) etc.; Open lemote or perating in manual selection FF, Output Selection of Parallel decided a selection of Parallel decided a digits, A decided	Disable, Accuracy Accuracy C, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by solve to the open adjust by so	2-15V = E i: ± 1% of i: ± 1% of i: ± 1% of iii (500oh c source cont = On; peration by pen collect separate v Voltage A pen Adjust e , Restart N ID) and L/ 2/RS-485 Slave: Hx = ± ± 0.5% of	selectable (de lo (rated), vo (rated) (vo (rated), vo (rated) m series surrent = 1 Max. volta voltage: tor: Local encoders. ### ################################	e. Accurac	ory Contactable exctable exctable exctable e) TTL Low senable/le Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel Did 1800, 960 ex = # of the Contactable exception of	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  djustment ock/Unloc  Control (i P-switch 0 and 19 Slave uni	), Max sin ontacts = 6: Remote : selectable :k CV to CC), 200 (by ct ts (0 to 4),	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  7 es. TTL  CV: TTL I  Dry contait  Selects F  Signals o  Vout/ lout  OVP/UVL  Address 2  Ad COS/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter  Green LE	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oldingh (4 ~ 10V, lemote or perating to the manual of the manual	Disable, Accuracy Accuracy C, OV = F SV), Man = Off, St Local or mode; Or adjust by solitag ut On/off EEE (IEM n (RS-23 Master/S ccuracy: ccuracy: voltage VIEW, Fe	2-15V = E /: ± 1% of /: ± 1% of all (500oh c source contressed on the contressed	selectable (de lo (rated), voltage: vol	e. Accurac e. Accurac e. Accurac e. Accurac e. Eauth or I user-sele user-sele impedanc OmA; CC: age acros O ~ 0.6V: = Open (I (coarse a oder, Fror of addres uto/Safe), on by rea 00, 2400, unit, where 0, 2410, ±1 count ±1 count cal sense OUT ON	ory Contactable e) TTL Low s Enable/ = Local / Max voltag and fine acut Panel L sses = 31 Foldback r-panel DI 4800, 960 e) x = # of t	ct : Open  (0 ~ 0.4V Disable cr 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch 0 and 19 Slave uni d (Remot	= ENA, SI  ), Max sin ontacts = 6  Remote , Remote : selectable ck  CV to CC), 200 (by ct is (0 to 4), e sense)	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL Control Functions  Display	By Voltag  0 ~ 5V or  0 ~ 5V or  7 es. TTL  CV: TTL I  Dry contait  Selects F  Signals o  Vout/ lout  OVP/UVL  Address 2  Ad COS/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter  Green LE	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Oldingh (4 ~ 10V, lemote or perating to the manual of the manual	Disable, Accuracy Accuracy C, OV = F SV), Man = Off, St Local or mode; Or adjust by solitag ut On/off EEE (IEM n (RS-23 Master/S ccuracy: ccuracy: voltage VIEW, Fe	2-15V = E 7: ± 1% of 7: ± 1% of 6: ± 1% of ail (500oh x source cont = On; beration by ben collect y voltage A the Adjust e the Adjust e ± 0.5% of ± 0.5% of at power s	selectable (de lo (rated), voltage: vol	e. Accurac e. Accurac e. Accurac e. Accurac e. Eauth or I user-sele user-sele impedanc OmA; CC: age acros O ~ 0.6V: = Open (I (coarse a oder, Fror of addres uto/Safe), on by rea 00, 2400, unit, where 0, 2410, ±1 count ±1 count cal sense OUT ON	ory Contactable e) TTL Low s Enable/ = Local / Max voltag and fine acut Panel L sses = 31 Foldback r-panel DI 4800, 960 e) x = # of t	ct : Open  (0 ~ 0.4V Disable cr 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch 0 and 19 Slave uni d (Remot	= ENA, SI  ), Max sin ontacts = 6  Remote , Remote : selectable ck  CV to CC), 200 (by ct is (0 to 4), e sense)	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  Ves.TTL  Dry conta  Selects F  Signals o  Vout/ Iout  OVP/UVL  Address :  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 2  Current: 4  Voltmeter  Green LE  Red LED	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OHigh (4 ~ ct; Open lemote or perating is manual at	Disable, Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Todal Accuracy Accuracy Accuracy Accuracy Accuracy Accuracy Voltage Accuracy Accuracy Accuracy Accuracy Voltage Accuracy A	2-15V = E  7: ± 1% of 7: ± 1% of 7: ± 1% of 8: source control = On; 9: peration by 9: peration b	selectable (de lo (rated), voltage: vol	e. Accurac e. Accurac e. Accurac e. Accurac e. Eauth or I user-sele user-sele impedanc OmA; CC: age acros O ~ 0.6V: = Open (I (coarse a oder, Fror of addres uto/Safe), on by rea 00, 2400, unit, where 0, 2410, ±1 count ±1 count cal sense OUT ON	ory Contactable e) TTL Low s Enable/ = Local / Max voltag and fine acut Panel L sses = 31 Foldback r-panel DI 4800, 960 e) x = # of t	ct : Open  (0 ~ 0.4V Disable cr 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch 0 and 19 Slave uni d (Remot	= ENA, SI  ), Max sin ontacts = 6  Remote , Remote : selectable ck  CV to CC), 200 (by ct is (0 to 4), e sense)	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions . Display . Display . Indications . FROGRAMMING & READBACK . Vout Programming Accuracy	By Voltag 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 10 ~ 6V or 10 ~	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OHigh (4 ~ lot; Open lemote or perating i manual i manual i selection IFF, Outputs- RS-485, If i digits, A displays D's: PRE : ALRM (6 f rated OL	Disable, Accuracy Acc	2-15V = E  7: ± 1% of  7: ± 1% of  7: ± 1% of  8: ± 1% of  9: ± 1% of  10: ± 1% of	selectable de lo (rated), vo (rated) na voltage: urrent = 1 Max. voltage: lor: Local encoders. # Modes (Al AN selectionly): 120: Master L. Vo (rated lo (rated) upply (Lo M/LOCAL, E. C. FAIL, E.	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal 5. FRONT PANEL . Control Functions . Display . Indications . Display . Indications . Output Programming Accuracy . Iout Programming Accuracy	By Voltag  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  Ves.TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Voltage: 4  Voltage: 4  Voltage: 4  Voltage: 5  End LED	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Or High (4 ~ lot; Open lemote or perating i manual i manual i manual i selection IFF, Outpu RS-485, If selection d I Parallel d digits, A d digits, A d digits, A d displays D's: PRE : ALRM (6	Disable, Accuracy Acc	2-15V = E  7: ± 1% of  7: ± 1% of  7: ± 1% of  8: ± 1% of  9: ± 1% of  10: ± 1% of	selectable de lo (rated), vo (rated) na voltage: urrent = 1 Max. voltage: lor: Local encoders. # Modes (Al AN selectionly): 120: Master L. Vo (rated lo (rated) upply (Lo M/LOCAL, E. C. FAIL, E.	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s)  Go-to-Locurrent adjust	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions . Display . Indications . Output Programming Accuracy . Vout Programming Accuracy . Vout Programming Resolution	By Voltag 0 ~ 5V or 10 or	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Olding ide exist; Open demote or perating i manual i manual i manual i selection FF, Outpr RS-485, IE selection d Parallel d digits, A d displays D's: PRE : ALRM (( f rated Outpread)	Disable, Accuracy Acc	2-15V = E  7: ± 1% of  7: ± 1% of  7: ± 1% of  8: ± 1% of  9: ± 1% of  10: ± 1% of	selectable de lo (rated), vo (rated) na voltage: urrent = 1 Max. voltage: lor: Local encoders. # Modes (Al AN selectionly): 120: Master L. Vo (rated lo (rated) upply (Lo M/LOCAL, E. C. FAIL, E.	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	
is. Shut-Off (SO) Control (rear panel) is. Output Current Monitor is. Output Voltage Monitor is. Power Supply OK (PS_OK) Signal is. Power Supply OK (PS_OK) Signal is. CV/CC Signal is. Enable/Disable is. Remote/Local Selection is. Remote/Local Signal is. FRONT PANEL is. Control Functions is. Display is. Indications is. Digital PROGRAMMING & READBACK is. Vout Programming Accuracy is. Vout Programming Resolution is. Iout Programming Resolution is. Iout Programming Resolution is. Iout Programming Resolution	By Voltag  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  Ves. TTL  CV: TTL    Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter  Green LE  Red LED  ± 0.5% of  0.02% of  0.04% of	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Olding (4 ~ let; Open lemote or perating (9 ~ manual selection FF, Output Selection FF, Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection FF, Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection FF, Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection FF, Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits, A displays D's: PRE: ALRM (6 frated Output Selection Belleting (1 digits) Belle	Disable, Accuracy VIEW, Fa Auster/S	2-15V = E 7: ± 1% of 7: ± 1% of 6: ± 1% of ail (500oh x source contrements of your cont	selectable (de lo (rated), volrated lo (rated), voltage: tor: Local encoders. ### Max. voltage: tor: Local encoder. ### Modes (Al AN selectionly): 12C + Master Le f Vo(rated lo (rated) upply (Lo M/LOCAL, E fall, E	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	
I lout Resistor Programming Shut-Off (SO) Control (rear panel) Output Current Monitor Output Voltage Monitor Output Voltage Monitor Coutput Co	By Voltag 0 ~ 5V or 0 ~ 6V	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Or high (4 ~ lot; Open lemote or perating i manual i manual i leselection HF, Outpu RS-485, IB leselection H Parallel letigits, A letigits,	Disable, Accuracy Acc	2-15V = E  7: ± 1% of  7: ± 1% of  7: ± 1% of  8: source controlled  8: source controlled  8: source controlled  9: separate  9: voltage A  9: Adjust e  9: Restart N  10D) and LA  22/RS-485  8: 8lave: Hx =  ± 0.5% of  at power s  OLD, REN  9: FOLD, A  age  10: source controlled  10: source control	selectable (de lo (rated), Vo (rated) (vo (rated), Vo (rated) (vo (rated), Vo (rated) (vo (rated), Vo (rated)	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	
S. Shut-Off (SO) Control (rear panel)  S. Output Current Monitor  Cutput Voltage Monitor  Cutput Voltage Monitor  Cutput Voltage Monitor  Courent Monitor  Courent Monitor  Courent Monitor  Courent Monitor  Courent Signal  Courent Signal  Courent Panel  Control Functions  Control Functions  Control Functions  Courent Panel  Court Programming Accuracy  Court Programming Accuracy  Court Programming Resolution  Court Programming Resolution  Court Readback Accuracy  Court Readback Accuracy	By Voltag 0 ~ 5V or 0 ~ 5V	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = OP dight; Open temote or perating it manual at manu	Disable, Accuracy Acc	2-15V = E 7: ± 1% of 7: ± 1% of 6: ± 1% of ail (500oh x source contrements of your cont	selectable (de lo (rated), Vo (rated) (vo (rated), Vo (rated) (vo (rated), Vo (rated) (vo (rated), Vo (rated)	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . FRONT PANEL . Control Functions . Display . Indications . Display . Indications . Out Programming Accuracy . Iout Programming Accuracy . Vout Programming Resolution . Iout Programming Resolution . Vout Readback Accuracy . Iout Readback Accuracy . Iout Readback Accuracy . Iout Readback Accuracy	By Voltag 0 ~ 5V or 0 ~ 6V	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Or high = Or high = Or high (4 ~ high = Or high = O	Disable, Accuracy Acc	2-15V = E  7: ± 1% of  7: ± 1% of  7: ± 1% of  8: source controlled  8: source controlled  8: source controlled  9: separate  9: voltage A  9: Adjust e  9: Restart N  10D) and LA  22/RS-485  8: 8lave: Hx =  ± 0.5% of  at power s  OLD, REN  9: FOLD, A  age  10: source controlled  10: source control	selectable (de lo (rated), Vo (rated) (vo (rated), Vo (rated) (vo (rated), Vo (rated) (vo (rated), Vo (rated)	e. Accurac	ory Contactable exctable exctable e) TTL Low is Enable/ie Local / Max voltage and fine act the Panel Lisses = 31 Foldback r-panel DI 4800, 960 et x = # of it the panel	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc  Control (i P-switch i0 and 19 Slave uni  d (Remot	e ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; Selectable ; CV to CC), 200 (by cu is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	
is. Shut-Off (SO) Control (rear panel) is. Output Current Monitor is. Output Voltage Monitor is. Power Supply OK (PS_OK) Signal is. Power Supply OK (PS_OK) Signal is. CV/CC Signal is. Enable/Disable is. Remote/Local Selection is. Remote/Local Signal is. FRONT PANEL is. Control Functions is. Display is. Indications is. Digital PROGRAMMING & READBACK is. Vout Programming Accuracy is. Vout Programming Resolution is. Iout Programming Resolution is. Iout Programming Resolution is. Iout Programming Resolution	By Voltag 0 ~ 5V or 0 ~ 6V	e: 0.6V = 0 ~ 10V, 0 ~ 10V, high = Olding ide etc; Open demote or perating i manual i manual i manual i demote or perating i demote or demote	Disable, Accuracy VIEW, Fa  August by	2-15V = E  7: ± 1% of  7: ± 1% of  7: ± 1% of  8: source controlled  8: source controlled  8: source controlled  9: separate  9: voltage A  9: Adjust e  9: Restart N  10D) and LA  22/RS-485  8: 8lave: Hx =  ± 0.5% of  at power s  OLD, REN  9: FOLD, A  age  10: source controlled  10: source control	selectable selectable (de lo(rated), Vo(rated), Vo(rated), vo(rated), vo(rated), m series surrent = 1 Max. voltage: dor: Local encoders. #// dodes (Al Selection), voltage: encoders. #// dodes (Al Selection), voltage: dor: Local encoder. #// dodes (Al Selection), voltage: doring the voltage of the voltage	e. Accurac	ory Contactable e) TTL Low s Enable/le Local / Max voltag and fine acut Panel L sses = 31 Foldback r-panel DI 4800, 960 e) x = # of t t 0 or at load /OFF, CV/	ct : Open  (0 ~ 0.4V Disable co 2 ~ 15V = ge = 30V)  dijustment ock/Unloc Control (i P-switch 0 and 19 Slave uni  d (Remot CC, FINE	= ENA, SI  ), Max sin ontacts = 6: Remote ; Remote ; selectable ; k CV to CC); 200 (by ct is (0 to 4),	k current = SV = On (Max s) Go-to-Loc urrent adjus Slave = Sk	10mA sink currer	nt = 10mA)	

<sup>\*800</sup>V - 1500V models (10kW) only available with 400VA and 480VAC input. For 208VAC Input models please contact the factory.

\*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input. per EIJ R9002A

\*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100~50% of lo(rated).

\*3. From 20% - 100% for models with lor < 17A.

All specifications subject to change without notice.

GanasysTM	311	15kW	<b>Specifications</b>
Genesys	30	IONVV	Specifications

1.0 MODEL	GEN	N/A	N/A	N/A	N/A	N/A	30-500	40-375	50-300	60-250			125-120	)
1.Rated Output Voltage	VDC						30*	40*	50*	60	80	100	125	)
2.Rated Output Current 3.Rated Output Power	ADC kW						500 15.0	375 15.0	300 15.0	250 15.0	187.5 15.0	150 15.0	120 15.0	)
F.Efficiency (min) at low AC line, 100% Rated Load	% KVV						15.0	15.0	15.0	88	15.0	15.0	15.0	
F. Linciency (min) at low AC line, 100 % Hated Load	/*						ctory for c	ther mod	els	- 00				+
I.1 CONSTANT VOLTAGE MODE (CV)														
. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤	mV						30	4	5	6	8	10	12.5	
500V; 0.05% - 600V < Vor ≤ 1500V) 2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤	mV						30	8	10	12	16	20	25	١,
500V; 0.1% - 600V < Vor ≤ 1500V)	1													_
B. Ripple, rms, 5Hz~1MHz, CV (*1)  I. Output Noise, p-p, (20MHz), CV (*1)	mV mV						60	20 60	20 75	20 75	25 100	25 100	25 125	1 2
5.Remote Sense Compensation / Wire	V						1.5	2	3	3	4	5	5	
5. Temperature Stability			of Vo(rat	ed) over 8	3 hours af	ter 30 mi					Temperatu			
7. Temperature Coefficient	ppm / °C	± 200 (±	± 0.02% o	f Vo(rated	)) / °C									
3. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms							100						
9. Up-Prog. Response Time, 0~Vomax, no load	ms							50						
I0. Transient Response Time (CV mode) (*2)	ms						Les	s than 3						
.2 CONSTANT CURRENT MODE (CC)														
. Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - Ior < 333A)	mA						500	375	334	125	94	75	60	╀
2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 25A ≤ lor < 333A; 0.2% - lor < 25A) (*3)	mA						500	375	334	188	141	113	90	
8. Ripple, rms, 5Hz~1MHz, CC	mA						350	200	150	100	100	100	50	$^{+}$
I. Temperature Stability											Temperatu		- 55	$^{+}$
. Temperature Coefficient	ppm/°C		± 0.03% o					, ,						t
.3 PROTECTIVE FUNCTIONS				/										
OCP	%	0 ~ 100												Τ
. OCP type		-	nt current											Ť
B. Foldback Protection (FOLD)		Output s	shutdown	; Manual r	eset by fr	ont pane	I OUT but	ton or DIg	ital comn	nunicatio	n, user-sel	ectable		Ť
. Foldback Response Time	s	Less tha	an 1 (Min	= 0.25 / N	Max = 25 /	Default	= 0.25); Se	ettable via	"FBD" co	ommand				Ť
5. OVP type		Inverter	shut-dow	n; Manua	I reset by	AC On/C	off recycle,	OUT but	ton, Rem	ote Analo	g or Digita	al communic	cation	
6. OVP Programming Accuracy	%		Vo(rated)											$\perp$
OVP Trip Point	V								rated) - 6	00V < Vo	or ≤ 1500V	; Shall alwa	ys be	
OVD Decrease Time	<u> </u>						05% of Vo( Vor ≤ 600		an 2.0 (fo	or Output	to begin to	o drop) for		+
. OVP Response Time	ms		Vor <u>&lt;</u> 150					,	- (					
9. Max. OVP Reset Time	s	7 (from	AC On/Of	f switch tu	ırn On)									┸
10. Over-temperature Protection (OTP)											de/ Unlato	hed: Auto-r	node)	┸
1. Phase-Loss Protection		163, por	wei suppi	Jilutuow	iii (Latorie	u. oaie-i	node / Un	atoriou. F	uto-mode	-)				
1.4 REMOTE ANALOG CONTROLS & SIGNALS	I a 4000/	0 51/	0 10)/					407 (1)						1 -
I. Vout Voltage Programming	-	0 ~ 5V or												+
2. lout Voltage Programming 3. Vout Resistor Programming	-	0 ~ 5V or 0 ~ 5/10kg							. ,	atad)				+
5. Voul nesisior Frogramming	-	0 ~ 5/10kg												$^{+}$
1 Jout Resistor Programming		0 1- 3/ TORK	Jillii luli-3	caie, usei			acy & Line							
<u> </u>		e: 0.6V =	Disable 2	-15V = Fi			ry Contac	rt: Onen =	= FIN Shc	rt = DIS	(user-sele	ctable logic	-)	_
5. Shut-Off (SO) Control (rear panel)	By Voltag				nable (de	fault) or [		ct: Open =	EN, Sno	ort = DIS	(user-sele	ctable logic	:)	F
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor	By Voltag 0 ~ 5V or	0 ~ 10V, A	Accuracy:	± 1% of le	nable (det o(rated), ι	fault) or [ user-sele	ctable	t: Open =	EN, SNO	ort = DIS	(user-sele	ctable logic	:)	E
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor	By Voltag 0 ~ 5V or 0 ~ 5V or		Accuracy: Accuracy:	± 1% of le ± 1% of V	nable (det o(rated), u /o(rated),	fault) or [ user-sele user-sele	ctable ectable	ct: Open =	EN, SNC	ort = DIS	(user-sele	ctable logic	:)	
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL	0 ~ 10V, A	Accuracy: Accuracy: (, 0V = Fa	± 1% of le ± 1% of V il (500ohr	nable (det o(rated), u /o(rated), m series i	fault) or [ user-sele user-sele mpedanc	ctable ectable :e)					ctable logic	:)	
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I	0 ~ 10V, A 0 ~ 10V, A High = Ok	Accuracy: Accuracy: (, 0V = Fa 5V), Max	± 1% of le ± 1% of V il (500ohr source cu	nable (def o(rated), u /o(rated), m series in rrent = 10	fault) or E user-sele user-sele mpedanc mA; CC:	ctable ectable ee) TTL Low	(0 ~ 0.4V	), Max sir	ık curren		ctable logic	:)	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I	· 0 ~ 10V, A · 0 ~ 10V, A · High = Ok · High (4 ~ 5	Accuracy: Accuracy: (, 0V = Fa 5V), Max : = Off, Sho	± 1% of lo ± 1% of V il (500ohr source cu rt = On; N	nable (def o(rated), u /o(rated), m series i rrent = 10 //ax. volta	fault) or Euser-seleuser-selempedancemA; CC:	ctable ectable ee) TTL Low s Enable/E	(0 ~ 0.4V) Disable co	), Max sir	ık curren		ctable logic	·)	
6. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL CV: TTL I Dry conta	0 ~ 10V, A 0 ~ 10V, A High = Ok High (4 ~ 5 act; Open =	Accuracy: Accuracy: Accuracy: (, 0V = Fa 5V), Max = Off, Sho Local ope	± 1% of lot ± 1% of Vill (500ohr source cu ort = On; No eration by	nable (det o(rated), u fo(rated), m series in rrent = 10 Max. voltage: 0	fault) or I user-sele user-sele mpedanc mA; CC: ge across 0 ~ 0.6V =	ctable ectable ee) TTL Low s Enable/E = Local / 2	(0 ~ 0.4V) Disable co - 15V = F	), Max sir entacts = Remote	ik current	t = 10mA	ctable logic	,	
is. Shut-Off (SO) Control (rear panel) is. Output Current Monitor C Output Voltage Monitor is. Power Supply OK (PS_OK) Signal is. CV/CC Signal is. Enable/Disable is. Remote/Local Selection is. Remote/Local Signal	By Voltag 0 ~ 5V or 0 ~ 5V or Yes. TTL CV: TTL I Dry conta	0 ~ 10V, A 0 ~ 10V, A High = Ok High (4 ~ 5 act; Open =	Accuracy: Accuracy: Accuracy: (, 0V = Fa 5V), Max = Off, Sho Local ope	± 1% of lot ± 1% of Vill (500ohr source cu ort = On; No eration by	nable (det o(rated), u fo(rated), m series in rrent = 10 Max. voltage: 0	fault) or I user-sele user-sele mpedanc mA; CC: ge across 0 ~ 0.6V =	ctable ectable ee) TTL Low s Enable/E = Local / 2	(0 ~ 0.4V) Disable co - 15V = F	), Max sir entacts = Remote	ik current	t = 10mA		,	
is. Shut-Off (SO) Control (rear panel) is. Output Current Monitor C Output Voltage Monitor is. Power Supply OK (PS_OK) Signal is. CV/CC Signal is. CV/CC Signal is. Enable/Disable is. Remote/Local Selection is. Remote/Local Signal is. FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o	0 ~ 10V, A 0 ~ 10V, A High = Ok High (4 ~ 5 act; Open =	Accuracy: Accuracy: (, 0V = Fa 5V), Max s = Off, Sho Local ope node; Ope	± 1% of lot ± 1% of V il (500ohr source cu ert = On; N eration by en collector	nable (det o(rated), u /o(rated), m series ii rrent = 10 /lax. voltage: 0 or: Local =	fault) or [ user-sele user-sele mpedanc mA; CC: ge acros 0 ~ 0.6V = Open (I	ctable ectable ectable report of the cetable	(0 ~ 0.4V Disable co - 15V = F le = 30V)	ntacts = Remote	ak current 6V = On (Ma	t = 10mA		,	
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I  Dry conta  Selects F  Signals o	TO ~ 10V, A TO ~ 10V, A High = Ok High (4 ~ 5 A Remote or A Perating n The manual a manual a	Accuracy: Accura	± 1% of N ± 1% of N il (500ohr source cu int = On; N eration by en collector separate erations	nable (dei o(rated), i /o(rated), m series ii rrent = 10 //ax. voltage: 0 or: Local =	fault) or [ user-sele user-sele mpedanc mA; CC: ge across 0 ~ 0.6V = Open (I	ctable ectable ectable ectable ectable ectable ectable ectable ectable. TTL Low estable. Enable. Enable. Enable. Enable. Enable ectable ectable ectable. Enable ectable ectable ectable. Enable ectable ectable ectable. Enable ectable ectable ectable ectable. Enable ectable ectable. Enable ectable ectable. Enable ectable ectable ectable. Enable ectable ectable. Enable ectable ectable. Enable ectable ectable. Enable ectable. Enable ectable ectable. Enable ectable ectable. Enable ectable. Enable ectable ectable. Enable ectabl	(0 ~ 0.4V) Disable co - 15V = F de = 30V)	ntacts = Remote Remote Remote	ak current 6V = On (Ma	t = 10mA		,	
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or 7 ves.TTL CV:TTL I Dry contac Selects F Signals o  Vout/ lout OVP/UVL Address s	TO ~ 10V, A TO ~ 10V, A High = Ok High (4 ~ 5) Act; Open = Remote or Operating n  t manual a manual a selection b	Accuracy: Accura	± 1% of Iu ± 1% of V il (500ohr source cu ort = On; N eration by en collector separate er /oltage Ad Adjust er	mable (dei o(rated), vol(rated), m series ii rrrent = 10 Max. voltage: C voltage: C encoders ( djust enco	fault) or I user-sele user-sele user-sele user-sele user-sele mpedanomA; CC: ge across 0 ~ 0.6V = 0.	ctable ectable	(0 ~ 0.4V) Disable co - 15V = F le = 30V) ljustment ock/Unloc	n, Max sirintacts = Remote Remote Remote selectabl	e)	t = 10mA ax sink cur		,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O	0 ~ 10V, A 10 ~ 10V, A High = Ok High (4 ~ 5 act; Open = Remote or Operating n t manual a manual a selection b DFF, Outpu	Accuracy: Accura	± 1% of Iv ± 1% of Vill (500ohr source cu rt = On; Narration by en collector separate e /oltage Ac Adjust er Restart M	nable (dei o(rated), u fo(rated), m series ii rrent = 10 Max. voltage: C or: Local = encoders i dijust enco	fault) or I user-sele user-sele user-sele user-sele user-sele mpedanomA; CC: ge across 0 ~ 0.6V = 0.	ctable ectable	(0 ~ 0.4V) Disable cc - 15V = F Ie = 30V) Ujustment Dock/Unloc	n, Max sirintacts = Remote Remote Remote selectabl	e)	t = 10mA ax sink cur		,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or Ves.TTL CV:TTL Is Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F	0 ~ 10V, Å 0 ~ 10V, Å High = Ok High (4 ~ 5 act; Open = Remote or pperating n  t manual a manual a selection b FF, Outpu	Accuracy: Accura	± 1% of Iv ± 1% of Vill (500ohr source cu ert = On; Norration by en collector separate e /oltage Ac Adjust er Restart Mo	nable (dei o(rated), u fo(rated), m series ii rrent = 10 Max. voltage: C pr: Local = encoders i dijust enco ncoder. # i lodes (Aui N selectic	fault) or I ser-sele user-sele mpedanc mA; CC: ge across ~ 0.6V = Coarse a der, Fror of addres to/Safe), on by rea	ctable ectable	(0 ~ 0.4V) Disable cc - 15V = F Ie = 30V) Ujustment Dock/Unloc Control (CP-switch	n, Max sirintacts = Remote Remote Remote selectable k	e), Go-to-L	t = 10mA  ax sink cur	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	By Voltag 0 ~ 5V or 0 ~ 5V or Yes.TTL Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = OK  High (4 ~ 5  act; Open =  Bemote or  perating n  t manual a  manual a  selection b  FFF, Outpu  RS-485, IE  e selection	Accuracy: Accura	± 1% of Iv ± 1% of Vill (500ohr source cu rt = On; Noration by en collector separate et /oltage Ac Adjust er Restart Mo O) and LA (RS-485 c	mable (dei o(rated), u /o(rated), m series in rrent = 10 Max. volta; voltage: C or: Local = encoders i diust enco ncoder. # u lodes (Aul N selecticonly): 1200	fault) or I user-sele user-sele user-sele mpedanc mA; CC: ge across c 0.6V = Coarse a der, Fror of addres to/Safe), on by rea 0, 2400,	ctable ectable ectable ectable ectable ectable ectable ectable ectable ectable. End ectable ec	(0 ~ 0.4V) Disable cc - 15V = F Ie = 30V)  Ijustment bck/Unloc  Control (C P-switch 0 and 19,	n, Max sir entacts = Remote Remote Remote selectable k	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
6. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 9. CV/CC Signal 9. Enable/Disable 1. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL 16. Control Functions	By Voltag 0 ~ 5V or 0 ~ 5V or 7 ves. TTL Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advanced	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = OK  High (4 ~ 5  act; Open =  Remote or  operating n  t manual a  manual a  selection b  UFF, Outpu  RS-485, IE  e selection d  d Parallel I	Accuracy: Accura	± 1% of Iu ± 1% of V il (500ohr source cu rt = On; N pration by en collector deparate en /oltage Ac Adjust er Restart M O) and LA /RS-485 cave: Hx =	mable (dei o(rated), u /o(rated), m series in rrent = 10 /max. volta; voltage: C or: Local = encoders dijust enconcoder. # u odes (Auf) N selecticonly): 1200 Master un	fault) or [ Jaser-sele user-sele user-sele mpedan mA; CC: ge acros: 0 ~ 0.6V = Copen (I (coarse a der, Fror of addres to/Safe), on by rea 0, 2400, on, it, where	ctable ectable	(0 ~ 0.4V) Disable cc - 15V = F Ie = 30V)  Ijustment bck/Unloc  Control (C P-switch 0 and 19,	n, Max sir entacts = Remote Remote Remote selectable k	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
6. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 9. CV/CC Signal 9. Enable/Disable 1. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL 16. Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes. TTL  CV: TTL I  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 2	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5  act; Open =  Remote or  reperating n  t manual a  manual a  selection b  FF, Outpu  RS-485, IE  e selection  d Parallel I  d digits, Ac	Accuracy: Accura	± 1% of Iu ± 1% of V il (500ohr source cu rt = On; N rration by en collecte separate e /oltage Ac Adjust er Restart M D) and LA /RS-485 c ave: Hx = 0.5% of V	nable (dei o(rated), u /o(rated), n n series ii rrent = 10 ////////////////////////////////////	fault) or [ Jaser-sele user-sele user-sele mpedan mA; CC: ge acros: 0 ~ 0.6V = Copen (I  (coarse a der, Fror of addres to/Safe), nn by rea 0, 2400, nit, where ±1 count	ctable ectable	(0 ~ 0.4V) Disable cc - 15V = F Ie = 30V)  Ijustment bck/Unloc  Control (C P-switch 0 and 19,	n, Max sir entacts = Remote Remote Remote selectable k	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL 16. Control Functions	By Voltag 0 ~ 5V or 0 ~ 5V or 7 ~ 5V or Yes. TTL Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address: AC ON/O RS-232/F Baud rate Advanced Voltage: 2 Current: 2	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5  act; Open = R  Remote or  Perating n  t manual a  manual a  selection b  FF, Outpu  RS-485, IE  e selection  d Parallel I  4 digits, Ac  4 digits, Ac  4 digits, Ac	Accuracy: Accura	± 1% of Iv ± 1% of Vill (500ohr source cu trt = On; N tration by the collector separate e /oltage Ac Adjust er Restart M 0) and LA /RS-485 c ave: Hx = 0.5% of V 0.5% of V	nable (dei o(rated), to fo(rated), m roferated), m roferated), m roferated in services in rrent = 10 Max. voltage: C or: Local = encoders in dijust enco- coder. # in odes (Aur N selectic music in services in music in services in music in services in services in music in services in services in music in services in services in services in music in services in services in services in music in services	fault) or I user-sele user-sele user-sele mpedanc mmA; CC: ge across 0 ~ 0.6V = Open (I coarse a dder, Fror of addres to/Safe), on by rea 0, 2400, it, where ±1 count ±1 count	ctable ectable ectable ectable ectable ectable ectable experience	(0 ~ 0.4V) Disable cc - 15V = F le = 30V)  Jjustment ock/Unloc  Control (CP-switch 0 and 19,; Slave unit	n, Max sir intacts = Remote Remote Remote Selectable CV to CC)	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 2. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  7 ~ 5V or  Yes. TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10	Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Boylongs Accuracy: Accurac	± 1% of Net 1 1% of Net 2 1% o	nable (dei o(rated), to fo(rated), m n series in rrent = 10 flax. voltage: Cor: Local = encoders (dijust enco codes (Auf) N selectionly): 120 Master ur fo(rated) : fo(rated)	fault) or I user-sele user	ctable ct	(0 ~ 0.4V) Disable cc - 15V = F le = 30V)  Ijustment cck/Unloc  Control (C P-switch 0 and 19, Slave unit	n, Max sir entacts = Remote Remote selectable k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes.TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter  Green LE	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5  act; Open = R  Remote or  Perating n  t manual a  manual a  selection b  FF, Outpu  RS-485, IE  e selection  d Parallel I  4 digits, Ac  4 digits, Ac  4 digits, Ac	Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Boylon Accuracy: Accuracy: Boylon A	± 1% of Net 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nable (dei o(rated), to fo(rated), in rented 10 flax. voltay voltage: Cor: Local = encoders (dijust enco encoder. # odes (Auf) N selectic only): 1200 Master ur fo(rated) : fo(rated) : pply (LocAL,	fault) or [ Juser-sele	ctable ct	(0 ~ 0.4V) Disable cc - 15V = F le = 30V)  Ijustment cck/Unloc  Control (C P-switch 0 and 19, Slave unit	n, Max sir entacts = Remote Remote selectable k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions	By Voltag  0 ~ 5V or  0 ~ 5V or  Yes.TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter  Green LE	0 ~ 10V, A 10 ~ 10V, A 10 ~ 10V, A High = OK H	Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Accuracy: Boylon Accuracy: Accuracy: Boylon A	± 1% of Net 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nable (dei o(rated), to fo(rated), in rented 10 flax. voltay voltage: Cor: Local = encoders (dijust enco encoder. # odes (Auf) N selectic only): 1200 Master ur fo(rated) : fo(rated) : pply (LocAL,	fault) or [ Juser-sele	ctable ct	(0 ~ 0.4V) Disable cc - 15V = F le = 30V)  Ijustment cck/Unloc  Control (C P-switch 0 and 19, Slave unit	n, Max sir entacts = Remote Remote selectable k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L	t = 10mA  ax sink cur  .ocal	rrent = 10m.	,	
. Shut-Off (SO) Control (rear panel) . Output Current Monitor . Output Voltage Monitor . Output Voltage Monitor . Power Supply OK (PS_OK) Signal . CV/CC Signal 0. Enable/Disable 1. Remote/Local Selection 2. Remote/Local Signal . 5 FRONT PANEL . Control Functions . Display . Display	By Voltag 0 ~ 5V or 0 ~ 5V or 7 ~ 5V or 7 ~ 5V or 1 ~ 5V or 1 ~ 6V	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5  act; Open =  Remote or  perating n  t manual a  manual a  selection b  selection b  selection b  selection d  Parallel I  4 digits, Ac  4 digits, Ac  7 displays v  ED's: PREF ALRM (C	Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Boylon	± 1% of Iv ± 1% of Vill (500ohr source cu rt = On; N eration by en collector eparate e /oltage Ac Adjust er Restart M b) and LA /RS-485 c ave: Hx = 0.5% of V power su LD, REM FOLD, Ac	nable (dei o(rated), i /o(rated), m series is rrent = 10 //ax. voltage: C or: Local = encoders i just enco ncoder. # i odes (Auth N selectic only): 1200 Master ur /o(rated) : /o(rated) : /o(rated) : /o(LOCAL, C FAIL, El	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
is. Shut-Off (SO) Control (rear panel) is. Output Current Monitor Cutput Voltage Monitor Depart Supply OK (PS_OK) Signal CV/CC Signal Depart S	By Voltag  0 ~ 5V or  0 ~ 5V or  7 ~ 5V or  Yes. TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address:  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Voltmeter  Green LE  Red LED	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5)  act; Open =  Bemote or  perating n  t manual a  manual a  selection b  FF, Outpu  RS-485, IE  selection d  d Parallel I  d digits, Ac  d digits, Ac  d displays v  ED's: PREV  ::ALRM (C	Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Boylon	± 1% of Iv ± 1% of Vill (500ohr source cu rt = On; N eration by en collector eparate e /oltage Ac Adjust er Restart M b) and LA /RS-485 c ave: Hx = 0.5% of V power su LD, REM FOLD, Ac	nable (dei o(rated), i /o(rated), m series is rrent = 10 //ax. voltage: C or: Local = encoders i just enco ncoder. # i odes (Auth N selectic only): 1200 Master ur /o(rated) : /o(rated) : /o(rated) : /o(LOCAL, C FAIL, El	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 22. Remote/Local Signal 15. FRONT PANEL 16. Control Functions  27. Display 28. Indications 29. Lout Programming Accuracy 29. Lout Programming Accuracy 20. Vout Programming Accuracy 20. Vout Programming Resolution	By Voltag  0 ~ 5V or  0 ~ 5V or  7 ~ 5V or  Yes. TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Voltage: 4  Current: 4  Voltmeter  Green LE  Red LED  ± 0.5% of  ± 0.5% of  0.02% of	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  10 ~ 10V, A  10 ~ 10V, A  11 ~ 10V, A  11 ~ 10V, A  11 ~ 10V, A  12 ~ 10V, A  13 ~ 10V, A  14 ~ 10V, A  15 ~ 10V, A  16 ~ 10V, A  17 ~ 10V, A  18 ~ 10V, A  18 ~ 10V, A  18 ~ 10V, A  18 ~ 10V, A  19 ~ 10V, A  19 ~ 10V, A  19 ~ 10V, A	Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Accuracy: Boylonda; Boylon	± 1% of Iv ± 1% of Vill (500ohr source cu rt = On; N eration by en collector eparate e /oltage Ac Adjust er Restart M b) and LA /RS-485 c ave: Hx = 0.5% of V power su LD, REM FOLD, Ac	nable (dei o(rated), i /o(rated), m series is rrent = 10 //ax. voltage: C or: Local = encoders i just enco ncoder. # i odes (Auth N selectic only): 1200 Master ur /o(rated) : /o(rated) : /o(rated) : /o(LOCAL, C FAIL, El	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
6. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 15. FRONT PANEL 16. Control Functions 17. Display 18. Indications 18. DIGITAL PROGRAMMING & READBACK 19. Vout Programming Accuracy 19. Iout Programming Accuracy 19. Iout Programming Resolution 19. Iout Programming Resolution 10. Iout Programming Resolution	By Voltag  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  Yes.TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advancec  Voltage: 4  Voltmeter  Green LE  Red LED  ± 0.5% of  0.02% of  0.04% of	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = OK  High = OK  High (4 ~ 5  act; Open =  Remote or  Rem	Accuracy: Accuracy: Accuracy: Covered to the covere	± 1% of No.  ± 1% of Vill (500ohr source cu rt = On; No. reation by reation b	nable (dei o(rated), to fo(rated), in series in rrent = 10 flax. voltage: Con: Local = encoders (dijust enco neoder, # under the conder, # under the odes (Auf) N selectionally): 1200 Master under the conder th	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Dower Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 12. FRONT PANEL 13. Control Functions 14. Display 15. Display 16. DIGITAL PROGRAMMING & READBACK 16. Vout Programming Accuracy 17. Lout Programming Accuracy 18. Vout Programming Resolution 19. Lout Programming Resolution	By Voltag  0 ~ 5V or  0 ~ 5V or  7 ~ 5V or  Ves.TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Current: 4  Voltmeter  Green LE  Red LED  ± 0.5% of  1.02% of  0.02% of  0.04% of  ± (0.1% of	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  10 ~ 10V, A  High e Ok  High e Ok  High e Ok  High e Ok  Remote or  perating n  t manual a  manual a  manual a  selection b  FF, Outpu  RS-485, IE  selection  d Parallel I  d digits, Ac  d digits, Ac  r displays e  ED's: PREV  ::ALRM (C  f rated Out  f rated Out  Vo(rated)  lo(rated)  of Vo(actual)	Accuracy: Boylon Accuracy: Accuracy: Boylon Accuracy	± 1% of Ne ± 1% of Vi il (500ohr source cu rt = On; Ne rration by en collecto separate e //oltage Ac Adjust er Restart M D) and LA //RS-485 c ave: Hx = 0.5% of N 0.5% of N power su LD, REM FOLD, AC ge ent for units	nable (dei o(rated), to fo(rated), in series in rrent = 10 flax. voltage: Cor: Local = encoders (dijust enco- neceder. # (dispersion); 1200 Master ur fo(rated) : fo(rated) : fo(rated) : swith lo <	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Over Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1.Control Functions  2. Display  3. Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy 5. Iout Readback Accuracy 6. Iout Readback Accuracy	By Voltag 0 ~ 5V or 0 ~ 5V or 7 ~ 5V or 1 ~ 5V or 1 ~ 5V or 2 ~ 5V or 2 ~ 5V or 2 ~ 5V or 3 ~ 5V or 2 ~ 5V or 2 ~ 5V or 3 ~ 5V or 4 ~ 5V or 4 ~ 5V or 5 ~ 5V or 5 ~ 5V or 5 ~ 5V or 6 ~ 5V or 7 ~ 5V	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High e Ok  High e Ok  High (4 ~ 5  act; Open e  Remote or  Independent of the	Accuracy: Boylon Accuracy: Accuracy: Boylon Accuracy	± 1% of Ne ± 1% of Vi il (500ohr source cu rt = On; Ne rration by en collecto separate e //oltage Ac Adjust er Restart M D) and LA //RS-485 c ave: Hx = 0.5% of N 0.5% of N power su LD, REM FOLD, AC ge ent for units	nable (dei o(rated), to fo(rated), in series in rrent = 10 flax. voltage: Cor: Local = encoders (dijust enco- neceder. # (dispersion); 1200 Master ur fo(rated) : fo(rated) : fo(rated) : swith lo <	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Over Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy 5. Iout Readback Accuracy 7. Vout Readback Resolution	By Voltag  0 ~ 5V or  0 ~ 5V or  7 ~ 5V or  Yes. TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address:  AC ON/O  RS-232/F  Baud rate  Advanced  Voltage: 4  Voltmeter  Green LE  Red LED  ± 0.5% of  0.02% of  0.04% of  ± (0.1% of  0.02% of  0.02% of	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5)  act; Open =  Bemote or  perating n  t manual a  selection b  PF, Outpu  RS-485, IE  selection d  d Parallel II  4 digits, Act  r displays s  D's: PREt  :-ALRM (C  f rated Out  Vo(rated)  lo(rated)  of Vo(actua  Vo(rated)	Accuracy: Boylon Accuracy: Accuracy: Boylon Accuracy	± 1% of Ne ± 1% of Vi il (500ohr source cu rt = On; Ne rration by en collecto separate e //oltage Ac Adjust er Restart M D) and LA //RS-485 c ave: Hx = 0.5% of N 0.5% of N power su LD, REM FOLD, AC ge ent for units	nable (dei o(rated), to fo(rated), in series in rrent = 10 flax. voltage: Cor: Local = encoders (dijust enco- neceder. # (dispersion); 1200 Master ur fo(rated) : fo(rated) : fo(rated) : swith lo <	fault) or [  Juser-sele  Juser	ctable extable	(0 ~ 0.4V) Disable cc - 15V = I I = 30V) Ujustment Disch/Unloc Control (C P-switch D and 19, Slave unit I (Remote CC, FINE	n, Max sir intacts = 1 Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4);	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
4. lout Resistor Programming 5. Shut-Off (SO) Control (rear panel) 6. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  4. 6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Iout Programming Accuracy 3. Vout Programming Resolution 4. lout Programming Resolution 5. Vout Readback Accuracy 6. Iout Readback Resolution 6. Iout Readback Resolution 8. Iout Readback Resolution 8. Iout Readback Resolution 8. Iout Readback Resolution 9. OV Repropose Time	By Voltag  0 ~ 5V or  0 ~ 5V or  0 ~ 5V or  Yes. TTL  Dry conta  Selects F  Signals o  Vout/ lout  OVP/UVL  Address s  AC ON/O  RS-232/F  Baud rate  Current: 4  Voltmeter  Green LE  Red LED  ± 0.5% of  ± 0.5% of  ± 0.1% of  ± 0.1% of  0.02% of  0.02% of  0.02% of  0.02% of	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10	Accuracy: Accuracy: Accuracy: Covered to the covere	± 1% of No.  ± 1% of Vol.  ± 1% of Vol.  ± 1% of Vol.  ± 16 of Vol.  ± 16 of Vol.  ± 16 of Vol.  ± 18 of Vol.  ± 1	nable (dei o(rated), to for(rated), to for(rated) to	fault) or I user-sele user	ctable ct	(0 ~ 0.4V Disable cc - 15V = F le = 30V), ijustment cck/Unloc Control (C P-switch D and 19,3 Slave unit	), Max sir intacts = :: Remote Remote selectabl k CV to CC) 200 (by c s (0 to 4):	e)  Go-to-L  urrent ad S = Slav	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	
5. Shut-Off (SO) Control (rear panel) 5. Output Current Monitor 7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications 1.6 DIGITAL PROGRAMMING & READBACK 1. Yout Programming Accuracy 2. Iout Programming Resolution 4. Iout Programming Resolution 5. Vout Readback Accuracy 5. Iout Readback Accuracy 6. Iout Readback Accuracy 7. Vout Readback Resolution	By Voltag 0 ~ 5V or 0 ~ 5V or 0 ~ 5V or 7 ~ 5V or 7 ~ 5V or 1 ~ 6V: TTL I Dry conta Selects F Signals o  Vout/ lout OVP/UVL Address s AC ON/O RS-232/F Baud rate Advancec Voltage: 4 Current: 4 Voltmeter Green LE Red LED  ± 0.5% of 0.02% of 0.04% of ± (0.1% of ± (0.1% of ± (0.1% of 0.02% of 0.02% of 0.02% of 0.02% of	0 ~ 10V, A  0 ~ 10V, A  10 ~ 10V, A  High = Ok  High = Ok  High (4 ~ 5)  act; Open =  Bemote or  perating n  t manual a  selection b  PF, Outpu  RS-485, IE  selection d  d Parallel II  4 digits, Act  r displays s  D's: PREt  :-ALRM (C  f rated Out  Vo(rated)  lo(rated)  of Vo(actua  Vo(rated)	Accuracy: Accuracy: Accuracy: Covered to the covere	± 1% of Iv ± 1% of V il (500ohr source cu rt = On; N ration by ration by recorded to collecte separate e /oltage Ac Adjust er Restart M D) and LA 'RS-485 c ave: Hx = 0.5% of V 0.5% of V power su LD, REM FOLD, Ac ge of Vo(rate of Vo(rate out exceed	nable (dei o(rated), to fo(rated), manager (dei forated), manager (dei forated), manager (dei forated) (dei forate	fault) or Euser-sele user-sele user-	ctable ct	(0 ~ 0.4V) Disable cc - 15V = F Ide = 30V)  Ijjustment Disk/Unloc  Control (C P-switch D and 19, Slave unit d (Remote CC, FINE  rated Ou	n, Max sir intacts = :: Remote Remote Selectabl k CV to CC) 200 (by c s (0 to 4):	ent for lo	t = 10mA  ax sink cur  ocal  just encod /e unit(s)	rrent = 10m.	,	

<sup>\*30</sup>V, 40V and 50V models (15kW) only available with 400VAC and 480VAC. For 208VAC Input models please contact the factory.

\*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.

\*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of rated Output.

\*3. From 20% - 100% for models with lor < 25A.

All specifications subject to change without notice.

1.0 MODEL	GEN	150-100	200-75	250-60	300-50	400-37.5	500-30	600-25	800-18.8	1000-15	1250-12	1500-10	15
1.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800*	1000*	1250*	1500*	$\vdash$
2.Rated Output Current	ADC	100	75	60	50	37.5	30	25	18.8	15	12	10	Н
3.Rated Output Power	kW	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.04	15.0	15.0	15.0	
4.Efficiency (min) at low AC line, 100% Rated Load	%	13.0	13.0	13.0	88	13.0	13.0	13.0	13.04		3.5	13.0	$\vdash$
	70					act Factor	v for othe	r models		9.	3.3		$\vdash$
1.1 CONSTANT VOLTAGE MODE (CV)	<del></del>				00110	act i actor	y ioi ouie	THOUGH					_
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	L
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V)	mV	30	40	50	60	80	100	120	800	1000	1250	1500	
3. Ripple r.m.s, 5Hz~1MHz, CV (*1)	mV	25	35	35	60	60	60	60	80	100	120	140	
4. Output Noise p-p (20MHz), CV (*1)	mV	150	175	200	200	300	350	350	700	800	1000	1400	
5.Remote Sense Compensation / Wire	V	5	5	5	5	5	5	5	5	5	5	5	
6. Temperature Stability						after 30 m	inute war	m up, con	stant Line	, Load & Te	mperature		
7. Temperature Coefficient	ppm / °C	200 (0.	02% of V	Rated) /									_
8. Up-Prog. Response Time, 0~Vomax, full-load	mS	-			100					17			L
9. Up-Prog. Response Time, 0~Vomax, no load	mS mS	-			50	2				17			L
10. Transient Response Time (CV mode) (*2)	mS	ļ			Less than	3				Less th	ian i		
1.2 CONSTANT CURRENT MODE (CC)													
1. Max. Line Reg (0.1% - Ior ≥ 333A; 0.050% - Ior < 333A)	mA	50	38	30	25	19	15	13	28	23	18	15	
2. Max. Load Reg (0.1% - lor ≥ 333A; 0.075% - 25A ≤ lor <	mA	75	57	45	38	28	23	19	38	30	24	20	
333A; 0.2% - lor < 25A) (*3)		ļ											H
3. Ripple r.m.s, 5Hz~1MHz, CC	mA	50	20	20	20	10	10	10	15	10	6	4	$\vdash$
4. Temperature Stability		•				ter 30 mir	ute warm	up (cons	tant Line,	Load & Ter	nperature)		$\vdash$
5. Temperature Coefficient	ppm / °C	<u> ± 300 (</u>	± 0.03%	of lo(rated	i)) / °C								
1.3 PROTECTIVE FUNCTIONS													_
1. OCP	%	0 ~ 100	)										
2. OCP type		Consta	nt current										
3. Foldback Protection		Output	shut dow	n; Manua	I reset by	front pane	el OUT bu	tton or DI	gital comn	nunication,	user-select	table	
4. Foldback Response Time	S	Less th	an 1 (Mir	= 0.25 /	Max = 25	/ Default	0.25); S	ettable via	a "FBD" co	mmand			
5. OVP type		Inverte	r shut-dov	vn; Manu	al reset by	On/Off re	cycle, Ol	JT button	Remote A	nalog or D	igital comm	nunication	
6. OVP Programming Accuracy	%	± 5% o	f Vo(rated	l)									
7. OVP Trip Point	V			of Vo(rated						00V < Vor <u>&lt;</u>	1500V; Sh	all always	
B. OVP response time	ms		an 10 (fo		begin to	drop) for	Vor ≤ 600	V; Less th	nan 2.0 (fo	r Output to	begin to dr	op) for	
9. Max. OVP reset time	s			off switch t	turn On)								H
10. Over temperature Protection		<del></del>				ceeds sa	fe operati	na levels	(Latched:	Safe/ Unlat	ched: Auto	١	Н
11. Phase Loss Protection	<del> </del>								uto-mode		.0.104171410	/	
		1, p.		,	(=====					/			_
1.4 REMOTE ANALOG CONTROLS & SIGNALS	T n 1000/	0 EV 0	.0 10\/	ugar aala	otoblo Ac	ouroou 9	Lincarity	. 10/ of \	/o/rotod\				Г
Nout Voltage Programming     Iout Voltage Programming		0 ~ 5V or											Н
2. Yout voltage Programming 3. Vout resistor programming	0 ~ 100%								of Vo(rate	d)			H
4. lout Resistor Programming							•		of lo(rate				Н
5. Shut-Off (SO) Control (rear panel)										t-DIS (user		logic)	Н
o: onat on (oo) control (real panel)	+							от. Орон	-114, 01101	t Dio (doci	-selectable		H
6 Output Current Monitor			riocuracy			user-sele	rtanie				-selectable	logio)	
			Accuracy			user-sele					-selectable	logioj	-
7. Output Voltage Monitor	0 ~ 5V or	0 ~ 10V,		: ± 1% of	Vo(rated)	user-sele	ctable				-selectable	10910)	
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal	0 ~ 5V or Yes. TTL	10 ~ 10V, High = O	K, 0V = F	: ± 1% of ail (500oh	Vo(rated) nm series	user-sele impedanc	ectable e)	(0 ~ 0.4V	), Max sinl	k current =		logicy	
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal	0 ~ 5V or Yes. TTL CV: TTL I	10 ~ 10V, High = Ol High (4 ~	K, 0V = F 5V), Max	: ± 1% of ail (500oh source c	Vo(rated) nm series urrent = 1	user-sele impedanc DmA; CC:	ctable e) TTL Low	•		k current =		logicy	
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable	0 ~ 5V or Yes. TTL CV: TTL I Dry conta	r 0 ~ 10V, High = Ol High (4 ~ act; Open	K, 0V = F 5V), Max = Off, Sh	: ± 1% of ail (500oh source c ort = On;	Vo(rated) nm series urrent = 1 Max. volta	user-sele impedanc 0mA; CC: age across	ctable e) TTL Low Enable/l	Disable co	ontacts = 6			logicy	
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection	0 ~ 5V or Yes. TTL CV: TTL I Dry conta	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or	K, 0V = F 5V), Max = Off, Sh Local op	: ± 1% of ail (500oh source co ort = On; eration by	Vo(rated) nm series urrent = 1 Max. volta v voltage:	user-sele impedanc 0mA; CC: age across 0 ~ 0.6V =	ectable e) TTL Low s Enable/l = Local / 2	Disable co 2 - 15V =	ontacts = 6 Remote	V			
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal	0 ~ 5V or Yes. TTL CV: TTL I Dry conta	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or	K, 0V = F 5V), Max = Off, Sh Local op	: ± 1% of ail (500oh source co ort = On; eration by	Vo(rated) nm series urrent = 1 Max. volta v voltage:	user-sele impedanc 0mA; CC: age across 0 ~ 0.6V =	ectable e) TTL Low s Enable/l = Local / 2	Disable co 2 - 15V =	ontacts = 6 Remote	V	10mA		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating I	K, 0V = F 5V), Max = Off, Sh Local op mode; Op	: ± 1% of ail (500oh source co ort = On; eration by en collect	Vo(rated) nm series urrent = 1 Max. volta v voltage: tor: Local	user-sele impedanc 0mA; CC: uge across 0 ~ 0.6V = = Open (N	ctable e) TTL Low s Enable/l = Local / 2 Max voltaç	Disable co 2 - 15V = 1 ge = 30V)	ontacts = 6 Remote , Remote =	On (Max	10mA		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating r	K, 0V = F 5V), Max = Off, Sh Local op mode; Op	: ± 1% of ail (500oh source co ort = On; eration by en collect	Vo(rated) nm series urrent = 1 Max. volta v voltage: tor: Local encoders	user-sele impedanc DmA; CC: age across 0 ~ 0.6V = = Open (N	ctable e) TTL Low s Enable/l Local / 2 Max voltage	Disable co 2 - 15V = 1 ge = 30V)	ntacts = 6 Remote , Remote =	On (Max	10mA		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating i	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by	: ± 1% of ail (500or source of ort = On; eration by en collect separate Voltage A	Vo(rated) mm series urrent = 1 Max. volta v voltage: tor: Local encoders djust enc	user-sele impedanc 0mA; CC: age across 0 ~ 0.6V = = Open (Note: (coarse a oder, Fron	etable e) TTL Low s Enable/l Local / 2 Max voltag nd fine ac t Panel Le	Disable co 2 - 15V = 1 ge = 30V)	ntacts = 6 Remote , Remote =	On (Max	10mA		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address:	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating i t manual a manual selection	K, 0V = F 5V), Max = Off, Sh Local opmode; Opmode; Opmode adjust by adjust by by Voltag	: ± 1% of ail (500or source co ort = On; eration by en collect separate Voltage A e Adjust e	Vo(rated) mm series urrent = 1 Max. volta v voltage: tor: Local encoders djust ence	user-sele impedance DmA; CC: age across 0 ~ 0.6V = = Open (No.1) (coarse a oder, Front of addres	ctable e) TTL Low s Enable/I = Local / 2 Max voltag  nd fine ac t Panel L ses = 31	Disable co 2 - 15V = 1 ge = 30V) djustment ock/Unloc	ontacts = 6 Remote , Remote = selectable k	e On (Max	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address: AC ON/O	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating i  t manual a manual selection DFF, Outpu	K, 0V = F 5V), Max = Off, Sh Local opmode;	: ± 1% of ail (500or source co ort = On; eration by en collect separate Voltage A e Adjust en, Restart	Vo(rated). Im series urrent = 1: Max. volta v voltage: tor: Local encoders djust encencoder. # Modes (A	user-sele impedanc DmA; CC: uge across 0 ~ 0.6V = Open (N  (coarse a oder, Fron of addres Auto/Safe)	ectable e) TTL Low s Enable/l = Local / 2 Max voltage  nd fine act t Panel Leses = 31 , Foldbace	Disable co 2 - 15V = 1 ge = 30V) djustment ock/Unlook k Control	ontacts = 6 Remote , Remote = selectable k	On (Max	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address: AC ON/O RS232/R	r 0 ~ 10V, High = Oi High (4 ~ act; Open Remote or pperating i t manual a manual selection DFF, Outpu S-485, IE	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/Oni EE (IEMI	: ± 1% of ail (500or source cort = On; eration by en collect separate Voltage A e Adjust en, Restart D) and LA	Vo(rated) m series urrent = 1 Max. volta v voltage: tor: Local encoders djust enc encoder. # Modes (/ N selection	user-sele impedanci DmA; CC: tige across 0 ~ 0.6V = Open (N (coarse a oder, Fron of addres kuto/Safe) on by rear	ctable e) TTL Low s Enable/l= Local / 2 Max voltag nd fine act t Panel L- ses = 31 , Foldbac panel DIF	Disable control  2 - 15V = 1  ge = 30V)  djustment ock/Unlock  k Control  P-switch	ontacts = 6 Remote Remote = selectable k (CV to CC	eV = On (Max = e), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL	0 ~ 5V or Yes. TTL CV: TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address : AC ON/O RS232/R Baud rate	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating i  t manual a manual selection DFF, Outpu S-485, IE e selection	K, 0V = F 5V), Max = Off, Sh Local opmode;	: ± 1% of ail (500oh source coort = On; eration by en collections) separate Voltage A e Adjust e e Adjust e n, Restart D) and LA 2/RS-485	Vo(rated), am series surrent = 1 Max. voltage: tor: Local encoders. # Modes (/ N selectionly): 120	user-sele impedance DmA; CC: uge across 0 ~ 0.6V = Open (No (coarse a oder, Fron of addres Auto/Safe) on by rear 0, 2400, 4	ctable e) TTL Low s Enable/le Local / 2 Max voltag nd fine ac t Panel L ses = 31 , Foldbac panel DIF	Disable of 2 - 15V = 1   2 - 15V = 1   2   2   2   2   2   2   2   2   2	ontacts = 6 Remote Remote = Remote = Selectable k (CV to CC	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1.Control Functions	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lour OVP/UVL Address a AC ON/O RS232/R Baud rate Advanced	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating i  t manual a manual selection DFF, Outpu S-485, IE e selection d Parallel	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/One EE (IEMI n (RS-232 Master/S	: ± 1% of ail (500oh source coort = On; eration by en collections) separate Voltage A e Adjust e e Adjust e h, Restart D) and LA 2/RS-485 lave: Hx =	Vo(rated), am series surrent = 1 Max. voltage: tor: Local encoders. # Modes (/ N selectionly): 120 Master L	user-sele impedance DmA; CC: uge across 0 ~ 0.6V = Open (No (coarse a oder, Fron of addres Auto/Safe) on by rear 0, 2400, 4 nit, where	ctable e) TTL Low s Enable/le Local / 2 Max voltag nd fine ac t Panel L ses = 31 , Foldbac panel DIF 1800, 960 e x = # of	Disable of 2 - 15V = 1   2 - 15V = 1   2   2   2   2   2   2   2   2   2	ontacts = 6 Remote Remote = Remote = Selectable k (CV to CC	eV = On (Max = e), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1.Control Functions	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address : AC ON/O RS232/R Baud rate Advancer Voltage: 4	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or operating i  t manual a selection DFF, Outpu SS-485, IE e selection d Parallel 4 digits, A	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EE (IEMI n (RS-232 Master/S ccuracy:	:± 1% of ail (500oh source cort = On; eration by the collection of	Vo(rated) Im series urrent = 1 Max. volta v voltage: tor: Local encoders. djust enc. encoder. # Modes (t N selectic only): 12C Master L V (vo(rated)	user-sele impedance DmA; CC: tige across 0 ~ 0.6V = 0 Den (N  (coarse a oder, Fron of addres Auto/Safe) on by rear 0, 2400, 4 nit, where 0 ±1 count	ctable e) TTL Low s Enable/le Local / 2 Max voltag nd fine ac t Panel L ses = 31 , Foldbac panel DIF 1800, 960 e x = # of	Disable of 2 - 15V = 1   2 - 15V = 1   2   2   2   2   2   2   2   2   2	ontacts = 6 Remote Remote = Remote = Selectable k (CV to CC	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 3. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1.Control Functions	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address : AC ON/O RS232/R Baud rate Advanced Voltage: 4 Current: 4	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or pperating !  t manual a manual selection DFF, Outpuls S-485, IE a e selection d Parallel d digits, A d digits, A	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by by Voltag ut On/On EE (IEMI n (RS-233 Master/S ccuracy: ccuracy:	:± 1% of ail (500oh source cont = On; eration by en collection separate Voltage A e Adjust € n., Restartt D) and LA 2/RS-485 lave: Hx = ± 0.5% of	Vo(rated) Im series In series In Max. volta In voltage: Itor: Local In encoders In Modes (/ In Selectic In only): 12C In Master L In Vo(rated In (rated)	user-sele impedanc DmA; CC: tige across 0 ~ 0.6V = 0 Open (N (coarse a obder, Fronto of address Auto/Safe) on by rear 0, 2400, 4 nit, where 0 ±1 count	ctable e) TTL Low s Enable/le Local / 2 Max voltag nd fine act t Panel L sses = 31 , Foldbac panel Dl 1800, 960 e x = # of	Disable or 2 - 15V = ge = 30V) djustment ock/Unlock k Control 2-switch 0 and 19, Slave unit	ontacts = 6 Remote Remote = Remote = Selectable Remote = Selectabl	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	O ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address s AC ON/O RS232/R Baud rate Advancer Voltage: 4 Current: 4 Voltmeter	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or opperating to the manual of selection DFF, Outpu S-485, IE of de Parallel de digits, A de digits, A de digits, A de displays	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EE (IEMI n (RS-233) Master/S ccuracy: ccuracy: Voltage a	: ± 1% of ail (500oh source cort = On; eration by en collect separate Voltage A e Adjust en, Restart )) and LA 2/RS-485 lave: Hx = ± 0.5% of the topower separate voltage A e Adjust en, Restart (1) and LA 2/RS-485 lave: Hx = ± 0.5% of the topower separate voltage A en collect voltag	Vo(rated) Im series Iurrent = 1 Max. volta v voltage: tor: Local encoders. djust enc encoder. # Modes (/ N selectic only): 12C = Master L f Vo(rated) lo(rated) upply (Lo	user-sele impedanc DmA; CC: gge across 0 ~ 0.6V = = Open (N  (coarse a oder, Fron of addres Auto/Safe) on by rear 0, 2400, 4 init, where 1 ±1 count cal sense	etable e) TTL Low s Enable/le = Local / 2 Max volta; and fine act t Panel L. ses = 31 , Foldbac panel DII 8800, 960 e x = # of	Disable or 2 - 15V = ge = 30V) djustment ock/Unlock k Control 2-switch 0 and 19, Slave unit	nntacts = 6 Remote Remote = Re	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lour OVP/UVL Address : AC ON/O RS232/R Baud rate Advanced Voltage: 4 Current: 4 Voltmetel Green LE	r 0 ~ 10V, High = Ol High (4 ~ act; Open Remote or pperating !  t manual a manual selection DFF, Outpuls S-485, IE a e selection d Parallel d digits, A d digits, A	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EE (IEMI n (RS-233 Master/S ccuracy: ccuracy: Voltage a VIEW, FC	: ± 1% of all (500or source coort = On; eration by en collect separate Voltage A e Adjust en, Restart) and LA 2/RS-485 lave: Hx = ± 0.5% of the power sould, REN DUD, REN	Vo(rated) m series urrent = 1: Max. voltay voltage: tor: Local encoders djust enc encoders (// N selectic only): 12C e Master L f Vo(rated lo(rated) upply (Lo. M./LOCAL	user-sele impedanco mA; CC: ige across 0 ~ 0.6V = = Open (N  (coarse a oder, Fron of addres Auto/Safe) in by rear 0, 2400, 4 nit, where ±1 count ±1 count cal sense, 0, OUT ON	etable e) TTL Low s Enable/le = Local / 2 Max volta; and fine act t Panel L. ses = 31 , Foldbac panel DII 8800, 960 e x = # of	Disable or 2 - 15V = ge = 30V) djustment ock/Unlock k Control 2-switch 0 and 19, Slave unit	nntacts = 6 Remote Remote = Re	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 3. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lour OVP/UVL Address : AC ON/O RS232/R Baud rate Advanced Voltage: 4 Current: 4 Voltmetel Green LE	r 0 ~ 10V, High = OI High (4 ~ act; Open Remote or operating in t manual is a manual is selection DFF, Outpu SS-485, IE e selection d Parallel 4 digits, A d digits, A r displays DFS: PRE	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EE (IEMI n (RS-233 Master/S ccuracy: ccuracy: Voltage a VIEW, FC	: ± 1% of all (500or source coort = On; eration by en collect separate Voltage A e Adjust en, Restart) and LA 2/RS-485 lave: Hx = ± 0.5% of the power sould, REN DUD, REN	Vo(rated) m series urrent = 1: Max. voltay voltage: tor: Local encoders djust enc encoders (// N selectic only): 12C e Master L f Vo(rated lo(rated) upply (Lo. M./LOCAL	user-sele impedanco mA; CC: ige across 0 ~ 0.6V = = Open (N  (coarse a oder, Fron of addres Auto/Safe) in by rear 0, 2400, 4 nit, where ±1 count ±1 count cal sense, 0, OUT ON	etable e) TTL Low s Enable/le = Local / 2 Max volta; and fine act t Panel L. ses = 31 , Foldbac panel DII 8800, 960 e x = # of	Disable or 2 - 15V = ge = 30V) djustment ock/Unlock k Control 2-switch 0 and 19, Slave unit	nntacts = 6 Remote Remote = Re	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 3. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK	0 ~ 5V or Yes.TTL CV:TTL I Dry contact Selects F Signals o Vout/ lour OVP/UVL Address : AC ON/O RS232/R Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED	r 0 ~ 10V, High = OI High (4 ~ act; Open Remote or or opperating in t manual is selection DFF, Outpu SS-485, IE or selection d Parallel 4 digits, A 4 digits, A 7 displays D'S: PRE ::.ALRM (6	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EE (IEM) n (RS-23; Master/S ccuracy: ccuracy: Voltage a Voltage a	: ± 1% of all (500or source coort = On; eration by en collect separate Voltage Ae e Adjust en, Restart D) and LA 2/RS-485 lave: Hx = ± 0.5% of ± 0.5% of tt power solle, FOLD, Ae, FOLD, A	Vo(rated) m series urrent = 1: Max. voltay voltage: tor: Local encoders djust enc encoders (// N selectic only): 12C e Master L f Vo(rated lo(rated) upply (Lo. M./LOCAL	user-sele impedanco mA; CC: ige across 0 ~ 0.6V = = Open (N  (coarse a oder, Fron of addres Auto/Safe) in by rear 0, 2400, 4 nit, where ±1 count ±1 count cal sense, 0, OUT ON	etable e) TTL Low s Enable/le = Local / 2 Max volta; and fine act t Panel L. ses = 31 , Foldbac panel DII 8800, 960 e x = # of	Disable or 2 - 15V = ge = 30V) djustment ock/Unlock k Control 2-switch 0 and 19, Slave unit	nntacts = 6 Remote Remote = Re	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications 16. DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address : AC ON/O RS232/R Baud rate Advanced Voltage: 4 Voltmeter Green LE Red LED	r 0 ~ 10V, High = OI High (4 ~ act; Open Remote or pperating in t manual a manual selection DFF, Outpu S-485, IE a selection d Parallel 4 digits, A 4 digits, A 4 digits, A 6 r displays E-0's: PRE E-1.ALRM (6	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EEE (IEMI n (RS-23); Master/S ccuracy: ccuracy: Voltage a Voltage a Voltage a	: ± 1% of ail (500or source coort = On; eration by era collect separate Voltage A e Adjust en, Restart D) and LA 2/RS-485 lave: Hx = ± 0.5% of the poor to both the collect separate both separate voltage A e Adjust en, Restart D) and LA 2/RS-485 lave: Hx = ± 0.5% of the poor so both separate voltage and the collection of the poor so both separate voltage aid to both separate voltage and the collection of the poor so both separate voltage and the collection of	Vo(rated) Im series urrent = 1: Max. volta; Vovltage: Vovltage: encoders djust enc encoder. # Modes (// N selectic only): 12C = Master L f Vo(rated lo(rated) upply (Lo M/LOCAL M/LOCA	user-sele impedanc DmA; CC: impedanc DmA; CC: impedanc DmA; CC: impedanc DmA; CC: impedanc Impedanc Impedanc Impedanc Impedanc Impedanc Impedanc Impedance I	extable e) TTL Low s Enable/le Local / 2 Max voltas  In fine ac t Panel L ses = 31 , Foldbac panel DIB 1800, 960 e x = # of en or at loa l/OFF, CV	Disable or 2 - 15V = 1 ge = 30V)  dijustment ock/Unlock Control of 2-switch 0 and 19, Slave unit d (Remote //CC, FIN)	nntacts = 6 Remote Remote Remote = selectable k (CV to CC 200 (y cur s (0 to 4);	e)  On (Max  O)  O	10mA sink curren ocal encoder) unit(s)		
7. Output Voltage Monitor 8. Power Supply OK (PS_OK) Signal 9. CV/CC Signal 10. Enable/Disable 11. Remote/Local Selection 12. Remote/Local Signal 1.5 FRONT PANEL 1. Control Functions  2. Display  3. Indications  1.6 DIGITAL PROGRAMMING & READBACK 1. Vout Programming Accuracy 2. Lout Programming Accuracy	0 ~ 5V or Yes.TTL CV:TTL I Dry conta Selects F Signals o Vout/ lout OVP/UVL Address : AC ON/O RS232/R Baud rate Advanced Voltage: 4 Current: 4 Voltmeter Green LE Red LED	f 0 ~ 10V, High = OI High (4 ~ act; Open Remote or operating in t manual acts election FF, Output S-485, IE e selection d Parallel 4 digits, A d digits, A d digits, A d digits, A f displays ED's: PRE E::ALRM (6	K, 0V = F 5V), Max = Off, Sh Local op mode; Op adjust by adjust by by Voltag ut On/On EE (IEMI n (RS-233) Master/S ccuracy: ccuracy: voltage a VIEW, FC OVP, OTF	: ± 1% of ail (500or source coort = On; eration by era collect separate Voltage A e Adjust en, Restart D) and LA 2/RS-485 lave: Hx = ± 0.5% of the poor collect separate Voltage A e Adjust en, Restart D) and LA 2/RS-485 lave: Hx = ± 0.5% of the poor collect separate Voltage A sep	Vo(rated) Im series urrent = 1: Max. volta; Vovltage: Vovltage: encoders djust enc encoder. # Modes (// N selectic only): 12C = Master L f Vo(rated lo(rated) upply (Lo M/LOCAL M/LOCA	user-sele impedanc DmA; CC: impedanc DmA; CC: impedanc DmA; CC: impedanc DmA; CC: impedanc Impedanc Impedanc Impedanc Impedanc Impedanc Impedanc Impedance I	extable e) TTL Low s Enable/le Local / 2 Max voltas  In fine ac t Panel L ses = 31 , Foldbac panel DIB 1800, 960 e x = # of en or at loa l/OFF, CV	Disable or 2 - 15V = 1 ge = 30V)  dijustment ock/Unlock Control of 2-switch 0 and 19, Slave unit d (Remote //CC, FIN)	nntacts = 6 Remote Remote Remote = selectable k (CV to CC 200 (y cur s (0 to 4);	e)  On (Max e)  e)  ), Go-to-Lo	10mA sink curren ocal encoder) unit(s)		
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<sup>\*800</sup>V - 1500V models (15kW) only available with 400VA and 480VAC input. For 208VAC Input models please contact the factory.

\*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R8002A.

\*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of lo(rated).

\*3. From 20% - 100% for models with lor < 25A.

All specifications subject to change without notice.

# General Specifications, Genesys™ 3U 10kW/15kW

2.1 INPUT CHARACTERISTICS		
Input Voltage / Frequency (range)		208VAC (180-253), 400VAC (360-440 , 342-440 (select 10kW/15kW models)), 480VAC (432-528); 47-63Hz (all)
2. No. of phases		3-Phase (Wye or Delta) 4 wire total (3-Phase and 1 protective Earth ground)
3. Dropout Voltage	V	180 / 360, 342 (select models) / 432; select models (10kW): 800V-1500V, select models (15kW): 30V-50V, 800V-1500V
4. Input Current (180VAC/360 or 342VAC/432VAC)	Arms	10kW - 45/23/20 (Vout ≤ 600V); N/A/23/20 (800V ≤ Vout ≤ 1500V) - at full rated Output power 15kW - 64/32/27 (Vout ≤ 600V); N/A/32/27 (800V ≤ Vout ≤ 1500V) - at full rated Output power
5. Inrush Current	Α	Not to exceed full rated Input current (see para. above)
6. Power Factor		0.88 Passive (typical)
7. Leakage Current	mA	3.5 (EN60950) max.
8. Input Protection		208VAC: circuit breaker (Vout ≤ 600V); 400VAC/480VAC (all models) - line fuse
9. Input Overvoltage Protection		Unit shall not be damaged by line overvoltage of 120% nominal AC input voltage with maximum duration of 100usec.
10. Phase Imbalance	%	≤ 5% on Three-Phase Input

#### 2.2 POWER SUPPLY CONFIGURATION

1. Parallel Operation	Up to four (4) identical units may be connected in Master/Slave Mode with single wire connection (*3). In Advanced-Parallel feature, the current of Master unit multiplied by number of units connected in parallel, is available via digital interface and displayed on the front panel display of the Master unit. Remote Analog current monitor of the Master is scaled to the Output current of the Master unit (only).
2. Series Operation	Possible (with external diodes); Up to two identical units with total Output voltage not to exceed ± 600V from Chassis ground (for Vor ≤ 600V); not to exceed ± 1500V from Chassis ground (for 600V < Vor ≤ 1500V).

#### 2.3 ENVIRONMENTAL CONDITIONS

2.3 LIVINONWILIVIAL CONDITIONS	
Operating Temperature	0 ~ +50°C, 100% load
2. Storage Temperature	-20 ~ +70°C
3. Operating Humidity	20 ~ 80% RH (non-condensing)
4. Storage Humidity	10 ~ 90% RH (non-condensing)
5. Vibration & Shock	ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package Assurance Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - Air (intercity) and motor freight (local), unitized is used.
6. Altitude	Operating: +50°C up to 7500 ft. (2500m), +45°C from 7501 to 10,000ft (2501m - 3000m), Non-Operating 40,000 ft (12,000m)
7. Audible Noise	65dBA at lo(rated) (measured 1m from front panel)

#### 2.4 EMC (\*4)

2.4 EMC (*4)	
1. 208VAC Input	CE Mark
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000-4-8
7. Conducted Emissions	EN55011A, FCC part 15J-A
8. Radiated Emissions	EN55011A, FCC part 15J-A
2. 400VAC/480VAC (*4) Input	CE Mark
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000-4-8
7. Voltage Dips, Short Interruptions and Voltage Variations Immunity Test (400VAC Only).	IEC 61000-4-11
8. Conducted Emissions	EN55011A, FCC part 15J-A
9. Radiated Emissions	EN55011A, FCC part 15J-A

2.5 SAFETY	
1.Applicable Standards:	UL/cUL 60950-1, EN60950-1 recognized, CB Scheme, CE Mark (208VAC & 400VAC inputs only) 7.5V ≤ Vout ≤ 400V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV 400V < Vout ≤ 600V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are not SELV 600V < Vout ≤ 1500V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV
2. Withstand Voltage	Vout ≤ 300V models: Input - Ground: 2900VDC for 1min, Input-Hazardous Output: 3500VDC for 1min, Input - SELV: 2900VDC for 1min Hazardous Output - SELV: 2121VDC for 1min, Hazardous Output - Ground: 2121VDC for 1min, Input-SELV: 2900VDC for 1min, Input-SELV: 2900VDC for 1min, Input-Hazardous Output: 3900VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2688VDC for 1min, Hazardous Output - Ground: 2688VDC for 1min, Input-Hazardous Output: 5040VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2500VDC for 1min, Hazardous Output - Ground: 2500VDC for 1min, Input-SELV: 2900VDC for 1min.
3.Insulation Resistance	> 100Megohms at 500VDC, +25°C

2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Fan-driven, Airflow from front to rear. Supplemental vents on side that shall not be blocked. EIA Rack mounting, stackable
	"Zero Stackable" top and bottom. Chassis slides or suitable rear support required.
2. Dimensions (WxHxD)	Width: 429mm / 16.9", Height: 3U - 133mm / 5.22", Depth - 564mm / 22.2" (excluding connectors, encoders, handles, etc.)
3. Weight	32kg / 70lbs
4. AC Input connector (with Protective Cover)	3 x M6 x 1" threaded studs (L1, L2, L3 and Chassis GND) and terminal cover.
5.Output Connectors	Up to and including 300V models: bus-bars (one and two-hole). Greater than 300V models: M6 x 0.5" threaded-stud terminals.
6.Control Connectors	Analog Programming: DB25, plastic connector, AMP747461-5, Female on Supply; Male on Mating connector, 747321, 25 pin Sub-D connector.
7. Mounting Method	Standard 19" Rack-Mount, provision for standard chassis slides. Side/Rear Support is required; Do not mount by front panel only.
8. Output Ground Connection	M5 x 1.0" threaded-stud

#### 2.7 WARRANTY

	1. Warranty	5 years
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\*3 GENESYS™ 30V-50V (15kW) and 800V-1500V (10kW/15kW) mdoels require a Two-Wire Parallel Master-Slave connection. See the Product USer's Manual for details.
\*4. 30V-50V (15kW) and 800V-1500V (10kW/15kW) models with 480VAC Input have CE Mark.
All specifications subject to change without notice



## Genesys<sup>™</sup> Power Parallel and Series Configurations

### Parallel operation - Master/Slave:

Active current sharing allows up to four identical units to be connected in an Auto-parallel configuration for four times the Output power. In Advanced Parallel Master/Slave Mode, total current is programmed and reported by the Master, Up to four supplies act as one.



## Series operation

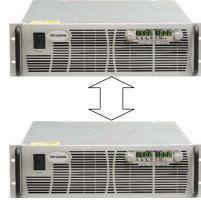
Up to two units may be connected in series to increase the Output voltage or to provide bipolar output. (Max 600V to Chassis GND for Vor < 600V; Max 1500V to Chassis GND for 600V < Vor < 1500V).

## Remote Programming via RS-232 & RS-485 Interface

Standard Serial Interface allows daisy-chain control of up to 31 power supplies on the same communication bus with built-in RS-232 & RS-485 Interface.







## **Programming Options (Factory installed)**

### **IEEE Multi-Drop Interface**

- Allows IEEE Master to control up to 30 (Standard) slaves over RS-485 daisy-chain
- Only the Master needs be equipped with IEEE Interface
- IEEE 488.2 & SCPI Compliant
- Program Voltage
- Measure Voltage
- Over-Voltage setting and shutdown
- Error and Status Messages

- Program Current
- Measure Current
- Current Foldback shutdown

### Multi-Drop Slave Option is Standard

- Standard Units are equipped with the Multi-Drop Slave (RS-485) function
- Allows RS-485 Master to control up to 30 (standard) Slaves over RS-485 Daisy-chain

### Isolated Analog Programming

- Four Channels total (Two to Program Voltage and Current; Two to Monitor Voltage and Current)
- Isolation allows operation with floating references in harsh electrical environments.
- Choose between programming with Voltage or Current.
- Connection via removable terminal block: Phoenix MC1,5/8-ST-3.81
- Voltage Programming, User-selectable 0-5V or 0-10V signal.

Power supply Voltage and Current Programming Accuracy: ±1% Power supply Voltage and Current Monitoring Accuracy: ±1.5%

Current Programming with 4-20mA signal.

Power supply Voltage and Current Programming Accuracy: ±1%

#### LXI Compliant to Class C LAN Interface

- Meets all LXI Class C Requirements
- Address Viewable on Front Panel
- Fixed and Dynamic Addressing
- Fast Startup

- VISA & SCPI Compatible
- LAN Fault Indicators
- Auto-detects LAN Cross-over Cable
- Compatible with most standard Networks

P/N: IEMD

P/N: "----"

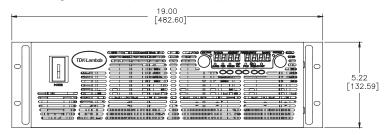
P/N: IS510

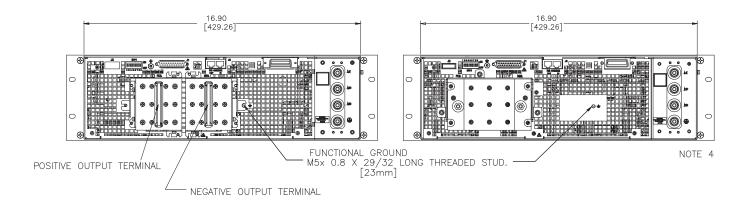
P/N: IS420

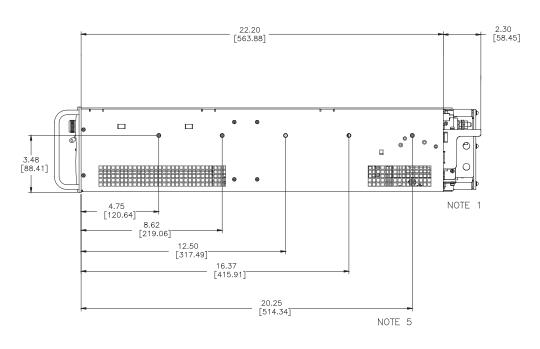
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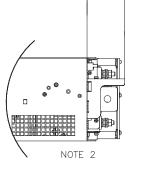


## Outline Drawings: Genesys™ 10kW (All - 208VAC), 10kW/15kW (60V to 600V - 208/400/480VAC)

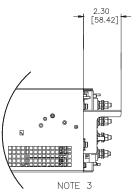








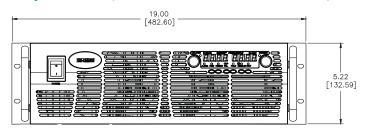
2.30 [58.42]

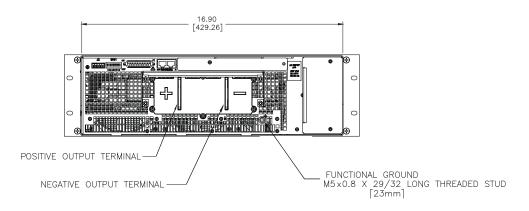


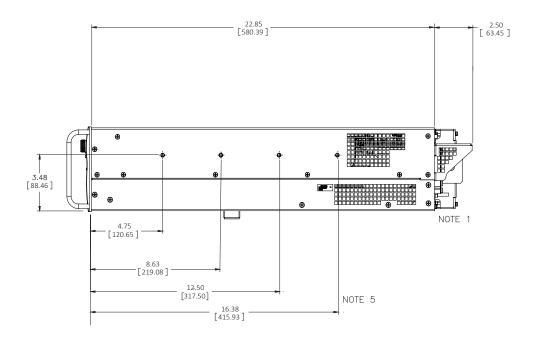
### NOTES:

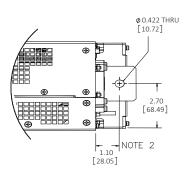
- 1. Busbars for models up to 30V Output: two holes 0.42" (10.72mm) diameter.
- 2. Busbars for models 40-300V (10kW) and 60-300V (15kW) Output: one hole 0.42" (10.72mm) diameter.
- 3. Threaded stud terminal for models above 300V Output.
- 4. Input Terminals M6 x 1" (3) + Ground M5 x 1" (2).
- Mounting for Slide Mounts (not included).
   Recommend General Devices, Chassis Trak P/N C230-S-122.
   Secure with pan head screw M5 x 0.8-8mm long (max).

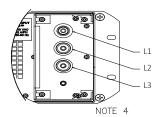
## Outline Drawings: Genesys™ 15kW (30V to 50V - 400VAC/480VAC)







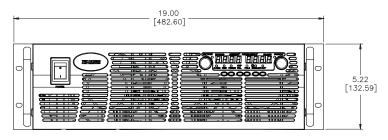


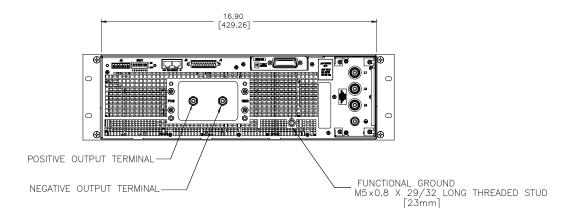


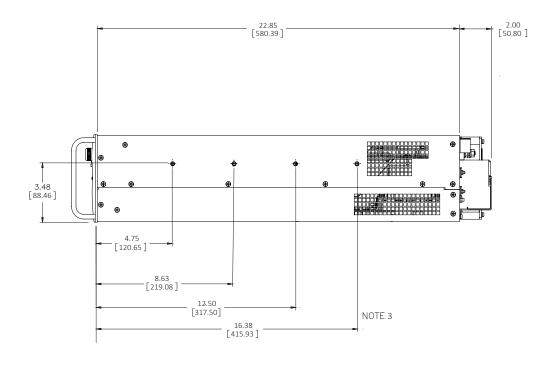
### NOTES:

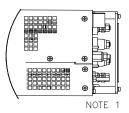
- 1. N/A
- 2. Bus bars for models 30-50V Output (15kW): one hole 0.42" (10.72mm) diameter.
- 3. N/A
- 4. Input Terminals M6 x 1" (3) + Ground M5 x 1" (2)
- Mounting for Slide Mounts (not included).
   Recommend General Devices, Chassis Trak P/N C230-S-122.
   Secure with pan head screw M5 x 0.8-8mm long (max).

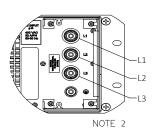
## Outline Drawings: Genesys™ 15kW (800V to 1500V - 400VAC/480VAC)











### NOTES:

- 1. Threaded stud terminals for 800V 1500V Output; M5 x 1".
- 2. Input Terminals M6 x 1" (3) + Ground M5 x 1" (2)
- 3. Mounting for Slide Mounts (not included). Recommend General Devices, Chassis Trak P/N C230-S-122. Secure with pan head screw M5 x 0.8-8mm long (max).

## Power Supply Identification / Accessories (Genesys<sup>™</sup> 3U 10/15kW) How to Order:

<u>GEN 10 - 1000</u>

Factory Options
Option: "-----"

3P208
AC Input Options

Series Output Output Name Voltage Current (0~10V) (0~1000A)

LAN 3 IEMD 3 IS510 IS420

3P208 (Three-Phase 208VAC) 3P400 (Three-Phase 400VAC) 3P480 (Three-Phase 480VAC)

Model	Output Voltage (Vdc)	Output Current (Adc)	Output Power (kW)
GEN 7.5-1000	0~7.5	0~1000	7.5
GEN 10-1000	0~10	0~1000	10
GEN 12.5-800	0~12.5	0~800	10
GEN 20-500	0~20	0~500	10
GEN 25-400	0~25	0~400	10
GEN 30-333	0~30	0~333	10
GEN 30-500	0~30	0~500	15
GEN 40-250	0~40	0~250	10
GEN 40-375	0~40	0~375	15
GEN 50-200	-200 0~200		10
GEN 50-300	0~50	0~300	15
GEN 60-167	0~60	0~167	10
GEN 60-250	0~60	0~250	15
GEN 80-125	0~80	0~125	10
GEN 80-187.5	0~60	0~187.5	15
GEN 100-100	0~100	0~100	10
GEN 100-150	0~100	0~150	15
GEN 125-80	N 125-80 0~125		10
GEN 125-120	0~125	0~120	15
GEN 150-66	0~150	0~66	10
GEN 150-100	0~150	0~100	15

Model	Output Voltage (Vdc)	Output Current (Adc)	Output Power (kW)	
GEN 200-50	0~200	0~50	10	
GEN 200-75	0~200	0~75	15	
GEN 250-40	0~250	0~40	10	
GEN 250-60	0~250	0~60	15	
GEN 300-33	0~300	0~33	10	
GEN 300-50	0~300	0~50	15	
GEN 400-25	0~400	0~25	10	
GEN 400-37.5	0~400	0~37.5	15	
GEN 500-20	0.500	0~20	10	
GEN 500-30	0~500	0~30	15	
GEN 600-17	0~600	0~17	10	
GEN 600-25	0~600	0~25	15	
GEN 800-12.5	0.800	0~12.5	10	
GEN 800-18.8	0~800	0~18.8	15	
GEN 1000-10	0~1000	0~10	10	
GEN 1000-15	0~1000	0~15	15	
GEN 1250-8	0~1250	0~8	10	
GEN 1250-12	U~1250	0~12	15	
GEN 1500-6.7	0.1500	0~6.7	10	
GEN 1500-10	0~1500	0~10	15	

## **Factory options**

RS-232/RS-485 Multi-Drop Interface (built-in Standard)
LAN Interface (LXI Class C compliant)
GPIB (Multi-Drop Master) Interface
Voltage Programming Isolated Analog Interface
Current Programming Isolated Analog Interface

### P/N

"-----" LAN IEMD

IS510 (standard on 800-1500V models)

IS420

### **Accessories**

### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	Mode RS-485		RS-232	
PC Connector	DB-9F	DB-9F	DB-25F	
Communication Cable Shield Ground, La		Shield Ground, L=2m	Shield Ground, L=2m	
Power Supply Connector EIA/TIA-568A (RJ-45)		EIA/TIA-568A (RJ-45)	EIA/TIA-568A (RJ-45)	
<b>P/N</b> GEN/485-9		GEN/232-9	GEN/232-25	

### 2. Serial Link cable\*

Daisy-chain up to 31 Genesys™ power supplies.

Mode	Power Supply Connector	Communication Cable	P/N	
RS-485	EIA/TIA-568A (RJ-45)	Shield Ground, L=50cm	GEN/RJ45	

 $<sup>^{\</sup>star}$  Included with GENESYS  $^{\text{TM}}\text{-}1\text{U},\,\text{-}2\text{U}$  power supply only.

# Genesys™ Family - Output Voltage / Output Current

Model	GENH		GEN-1U		GEI	N-2U	GE	N 3U
Rated Power	750W	750W	1500W	2400W	3300W	5000W	10kW	15kW
Voltage Range				Output	Current Rang	je		
0~6V	0~100A	0~100A	0~200A					
0~7.5V							0~1000A	
0~8V	0~90A	0~90A	0~180A	0~300A	0~400A	0~600A		
0~10V				0~240A	0~330A	0~500A	0~1000A	
0~12.5V	0~60A	0~60A	0~120A				0~800A	
0~15V					0~220A			
0~16V				0~150A		0~310A		
0~20V	0~38A	0~38A	0~76A	0~120A	0~165A	0~250A	0~500A	
0~25V							0~400A	
0~30V	0~25A	0~25A	0~50A	0~80A	0~110A	0~170A	0~333A	0~500A <sup>(3), (4)</sup>
0~40V	0~19A	0~19A	0~38A	0~60A	0~85A	0~125A	0~250A	0~375A(3), (4)
0~50V			0~30A				0~200A	0~300A <sup>(3), (4)</sup>
0~60V	0~12.5	0~12.5A	0~25A	0~40A	0~55A	0~85A	0~167A	0~250A
0~80V	0~9.5A	0~9.5A	0~19A	0~30A	0~42A	0~65A	0~125A	0~187.5A
0~100V	0~7.5A	0~7.5A	0~15A	0~24A	0~33A	0~50A	0~100A	0~150A
0~125V							0~80A	0~120A
0~150V	0~5A	0~5A	0~10A	0~16A	0~22A	0~34A	0~66A	0~100A
0~200V							0~50A	0~75A
0~250V							0~40A	0~60A
0~300V	0~2.5A	0~2.5A	0~5A	0~8A	0~11A	0~17A	0~33A	0~50A
0~400V							0~25A	0~37.5A
0~500V							0~20A	0~30A
0~600V	0~1.3A	0~1.3A	0~2.6A	0~4A	0~5.5A	0~8.5A	0~17A	0~25A
0~800V							0~12.5A	*0~18.8A <sup>(3), (4)</sup>
0~1000V							0~10A	*0~15A <sup>(3), (4)</sup>
0~1250V							0~8A	*0~12A <sup>(3), (4)</sup>
0~1500V							0~6.7A	*0~10A <sup>(3), (4)</sup>
Weight (kg/lb)	4.5 / 9.9	7.0 / 15.0	8.5 / 18.0	10 .0 / 22.0	13.0 / 29.0	16.0 / 35.0	43.0 / 97.0	43.0 / 97.0 *32.0 / 70.0

<sup>(4)</sup> Available in 400VAC and 480VAC input. For 208VAC input please contact the factory.

## **AC Inputs**

85-265Vac, 1Ø	• (1)	• (1)	• (1)					
230Vac, 1Ø				• (1	• (1)			
208Vac, 3Ø				• (1	• (1)	• (1)	• (2)	• (2)
400Vac, 3Ø					• (1)	• (1)	• (2)	• (2)
480Vac, 3Ø							• (3)	• (3)

<sup>(1)</sup> UL Listed; CE Mark , RoHS (2) UL Recognized; CE Mark (3) UL Recognized only (CE Mark for select 10kW (800V-1500V) and 15kW (30V-50V and 800V-1500V) models.

## Options (All Models)

<b>'</b>	/
""	Standard (with Multi-Drop Slave installed)
LAN	LXI Compliant LAN Interface (Class C)
IEMD	IEEE Master (IEEE 488.2 & SCPI compliant) with Multi-Drop Slave installed
IS510	Isolated Analog Programming (0-5V or 0-10V, User-selectable); standard on 800-1500V Outputs
IS420	Isolated Analog Programming (4-20mA)

<sup>(</sup>All options are factory installed and limited to one per power supply).

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